TC-H5600

SERVICE MANUAL



AEP Model **UK Model** E Model

This unit is the cassette deck for the MHC-5600 component system.

Model Name Using Similar Mechanism TC-WR97ES/WR870 Tape Transport Mechanism Type TCM-200R8

SPECIFICATIONS

Recoding system

Frequency response (DOLBY NR OFF)

30 - 14,000 Hz (±3 dB), using TYPE I cassette (Sony HF-S) 30 - 15,000 Hz (±3 dB)

using TYPE II cassette 0 - 16,000 Hz (±3 dB) using TYPE IV cassette 0.06% WRMS±0.16% (DIN)

Wow and flutter Inputs

PHONO (phono jacks): sensitivity 5 mV impedance 47 kohms VIDEO (phono jacks) sensitivity 300 mV impedance 47 kohms

Design and specifications subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol 🔲 are trademarks of Dolby Laboratories Licensing Corporation.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.





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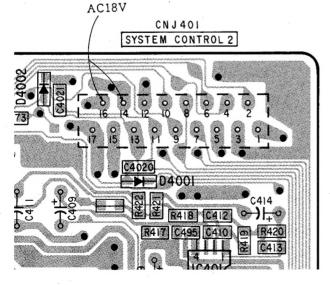
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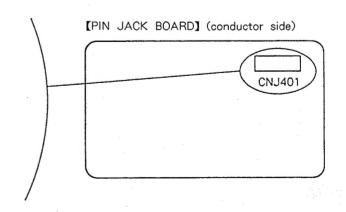
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Caution when repairing

Normally the power of this set is supplied from the TA-H5600 amplifier connected. When only this set is repaired, connect the power of 18V AC as shown in the figure below.

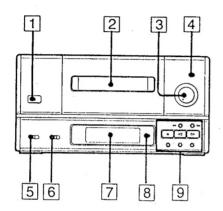




SECTION 1 GENERAL

This section is extracted from instruction manual.

LOCATION AND FUNCTION CONTROLS



1 台 OPEN/CLOSE button2 Cassette holder

3 REC LEVEL (recording level) control

4 AUTO REC LEVEL (automatic recording level) button ®

5 DOLBY NR (Dolby Noise Reduction) button 🚳

6 DIRECTION MODE button @

7 Display window

8 COUNTER RESET button Resets the counter of the cassette deck to "0".

9 Tape operation buttons

: Stop

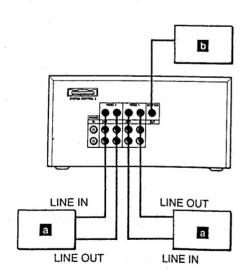
: Forward play

◁ : Reverse play

: PAUSE

: MUTE (Muting)

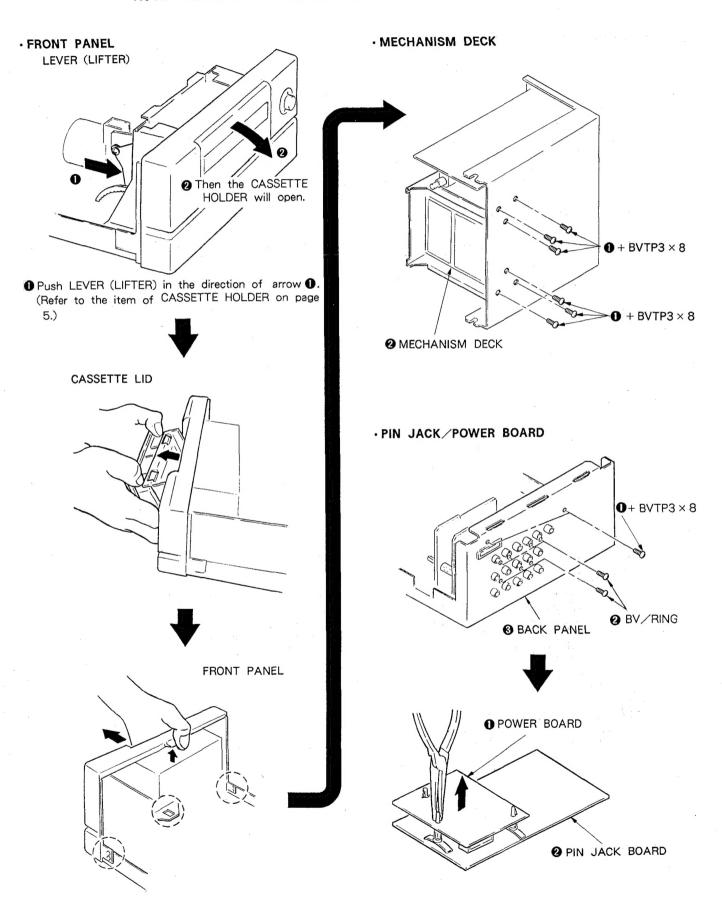
: REC (recording)

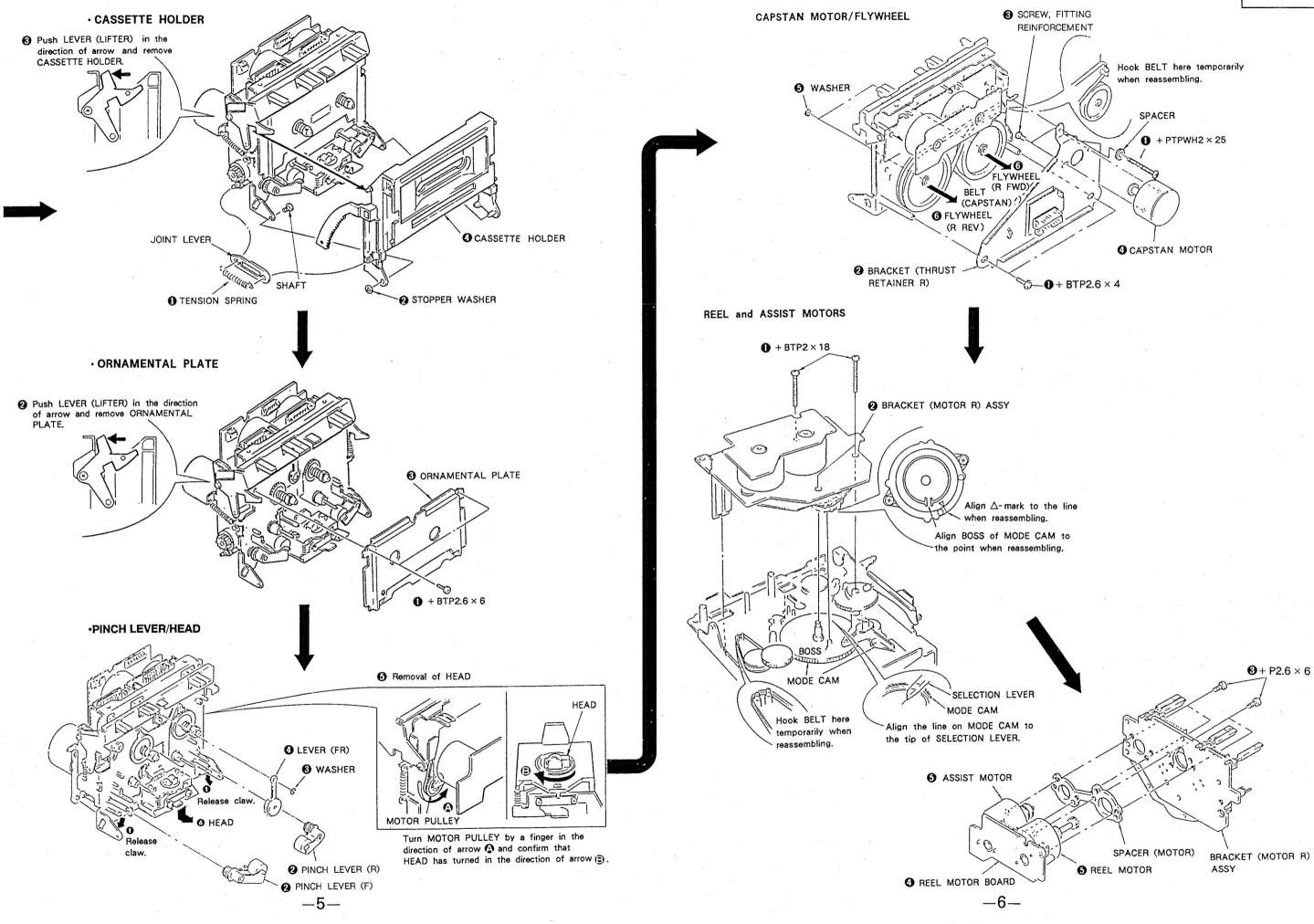


You can connect a VCR a to the VIDEO 1 or VIDEO 2 jacks. You can also connect a monitor TV b to MONITOR OUT. (TV with MONITOR IN jacks only.) To select VCR, press the VIDEO FUNCTION selector and light up the VIDEO 1 or VIDEO 2 indicator.

SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.





SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback head erase head

pinch roller rubber belts

capstan

idlers

2. Demagnetize the record/playback head with a head demagnetizer.

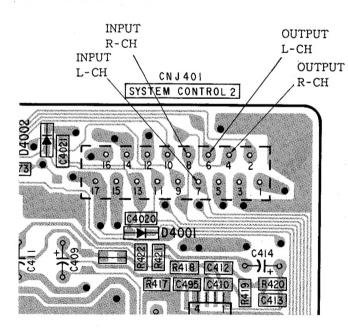
(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustment.4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 60g·cm (0.42to 0.83 oz·inch)
Forward back tension	CQ-102C	1 to 5g · cm (0.014 to 0.0690z · inch)
Reverse	CQ-102RC	30 to 60g · cm (0.42 to 0.83oz · inch)
Reverse back tension	CQ-102RC	1 to 5g · cm (0.014 to 0.0690z · inch)
Forward, Reverse	CQ-201B	65 to 90g·cm (0.9 to 1.25 oz·inch)

LINE IN/OUT Terminal (CNJ401)



SECTION 4 ELECTRICAL ADJUSTMENTS

PRECAUTION

- 1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
- 2. The adjustment and measurement should be performed for both L-CH and R-CH.
- Switch position

DOLBY NR switch : OFF DIR MODE switch : ≠

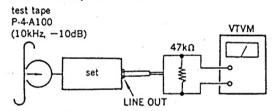
Test Tape

Tape	Contents	Use
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

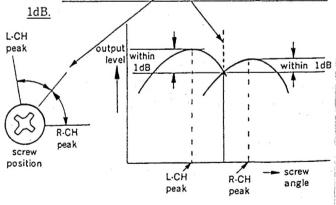
Record/Playback Head Azimuth Adjustment

Procedure:

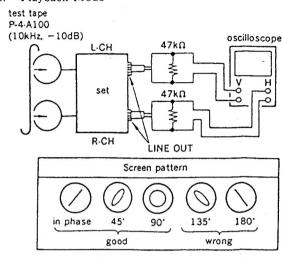
1. Forward Playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do notmatch, turn the adjustment screw until both of output levels match together within

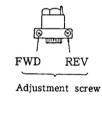


3. Playback Mode



- 4. Change the reverse playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screw with suitable locking compound.

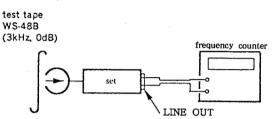
Adjustment Location: - record/playback head -



Tape Speed Adjustment

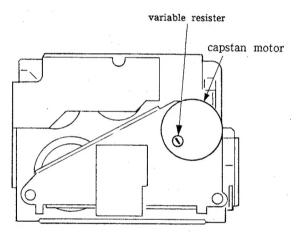
Procedure:

-Forward Playback Mode-



- 1. Set to FWD playback mode.
- 2. Adjust motor rear side (variable resistor) so that the frequency counter reading becomes $3,000 \pm 15$ Hz.

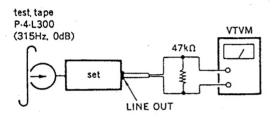
Adjustment Location: - capstan motor -



Playback Level Adjustment

Procedure:

-Forward Playback Mode-



Adjustment RV101 (L-ch) and RV201 (R-ch) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limit:

LINE OUT level: -10 ± 0.5 dB (0.23 to 0.26V)

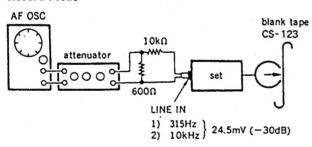
Level Difference between Channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

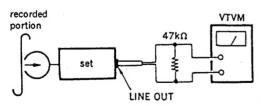
Record Bias Adjustment

Procedure:

1. Record Mode



2. Playback Mode

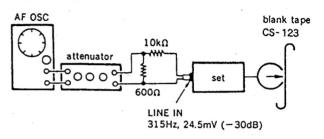


Playback the signal recorded in step 1. Confirm that the 10kHz playback output is $0 \pm 0.5 dB$ relative to the 315Hz output. If necessary, adjust RV103 (L-CH), RV203 (R-CH) and repeat the steps given above.

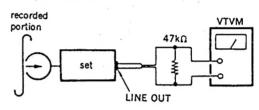
Record Level Adjustment

Procedure:

1. Record Mode



2. Playback Mode



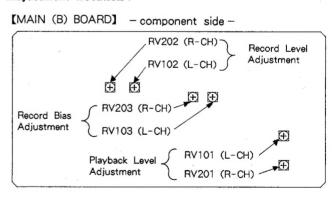
Confirm playback the tape recorded become adjustment level as follows.

If necessary, adjust RV102 (L-CH), RV202 (R-CH) and repeat steps 1 and 2.

Adjustment Limits:

LINE OUT level: $-30 \pm 0.5 dB$ (23 to 26mV)

Adjustment Location:



SECTION 5 DIAGRAMS

5-1. IC PIN DESCRIPTION

IC601 display microprocessor HD614023FA89

Fluorescent lamp indicator is activated by receiving data from IC702 (system controller).

Pin	Pin Name	1/0	Description
1~11 12 13 14~25 26	k-a VDISP Vcc	O I	FL indicator tube(FL601)segment output. Not used(+5.6 V). Power supply for activating the FL indicator tube(-22 V). Not used(GND). Power supply terminal(+5.6 V).
27 28 29 30 31 32~35	CLK DATA SYNC SAF	I I O O	Data transmission clock input from IC702(system controller). Serial data input from IC702(system controller). Sync signal input which indicates the first byte of data sent from IC702(system controller). Not used(GND). LED(D601)light output in the AUTO REL LEVEL. Not used.
36~42 43 44 45 46	RESET TEST OSC1 OSC2	I I O	Not used(GND). Reset input from IC702(system controller). "L": Reset. Not used(+5.6V). Clock input(4.19MHz). Clock output.
47 48~50 51 52 53~57	GND 1G – 5G	0	Power supply terminal(GND). Not used(GND). Not used(Pull-up). Not used. FL indicator tube(FL601)grid output.
58~59 60~64		0	Not used. FL indicator tube(FL601)segment output.

IC406 selector controller M50760-315FP

AV output is switched with the audio bus signal sent from the amplifier (TA-H5600).

Pin	Pin Name	1/0	Description						
1 2 3 4 5	D3 A0 A1 CNVss	0 0	Model selection input port. Connected to GND. Audio IN switch(IC403 and IC404)control output port. Not used. Audio IN switch(IC403 and IC404)control output port. Power supply terminal(GND).						
6 7 8 9 10	Vss A2 B0 B1	000	Power supply terminal(GND). Audio IN switch(IC403 and IC404)control output port. Audio OUT switch(IC405)control output port. Audio OUT switch(IC405)control output port. Not used.						
11 12 13~14 15	V0 V1	0	Video IN/OUT switch(IC407)control output port. Video IN/OUT switch(IC407)control output port. Not used(GND). Not used.						
16 17 18 19 20	RESET XOUT XIN S D0	I O I I I	Reset input. "L": Reset Clock output. Clock input. Serial data input(audio bus). Serial data input(audio bus).						
21 22 23 24	D1 D2 V _{DD}	I I —	Model selection input port. Connected to +5 V(pull up). Not used. Model selection input port. Connected to GND. Power supply terminal(+5 V).						

IC702 system controller M50944-155SP

The system is wholly controlled by communication between IC601 (display microprocessor) and IC701 (mechanism controller).

Pin No.	Pin Name	1/0	Description
1 2 3 4 5	VREF MET – R MET – L VOL A/D	I I I I	A/D input port reference voltage input(+5.6 V). Level meter Rch input(analog)from the meter amplifier(IC305). Level meter Lch input(analog)from the meter amplifier(IC305). REC LEVEL VOLUME(RV301)position detect input(analog). Not used.
6 7 8 9 10	KEY4 KEY3 KEY2 KEY1 SYNC	I I I O	Key switch input(analog). Key switch input(analog). Key switch input(analog). Key switch input(analog). Sync signal output which indicates the first byte of data sent to IC601.
11 12 13 14 15	FL SK FL SO AUB OUT AUB IN POW IN	0 0 1 1	Data transmission clock output to IC601. Serial data output to IC601. Audio bus output. Audio bus output(negative edge). Not used(pull up).
16 17 18 19 20	PB SEL AMS SEL MD REQ MD SCLK MD SO	0 0 1 0	Not used(open). Not used(open). Data request input from IC701. Data transmission clock output to IC701. Serial data output to IC701.
21 22 23 24 25	MD SI RES OUT AUB IN	I O I	Serial data input from IC701. Reset signal output to IC601. Not used(open). Audio bus input(positive edge). Not used(open).
26 27 28 29 30,31	GND RES XIN XOUT		Power supply terminal(GND). System reset input. "L": Reset. Clock input(4 MHz). Clock output. Not used(open).
32 33 34 35	Vss # TEST 2 TEST 1		Power supply terminal(GND). Not used(open). Test mode setting input. This set enters into the test mode when the power is on and it is set to "L"(CNP703 is shortened)*1 Not used(GND).
36,37 38 39 40 41	VERSEL POW ON VOL LED VOL –	I O O	Not used(+5.6 V). Not used(open). Not used(GND). Volume LED ON/OFF output. "L": light up. Volume moter(RV301)down control output for IC706.
42 43 44~47 48 49	VOL + VOL SPD BIAS 4 BIAS 2	00000	Volume moter(RV301)up control output for IC706. Volume moter speed control output. "H": SLOW, "L": FAST. Not used(open). Tape bias select output. "L": Metal. Tape bias select output. "L": Cr02.
50 51 52 53 54	BIAS 1 RMUTE RELAY	00000	Tape bias select output. "L": Normal. REC mute control output. Not used(open). Mechanism deck head switch control output. "L": Relay on. Not used(open).

Pin No.	Pin Name	1/0	Description
55 56 57 58 59	B/C ON/OFF REC/PB PB70 \(\mu_S\) AMS IN	0 0 0 0	Dolby B/C control output. "L": Dolby C, "H": Dolby B. Dolby ON/OFF control output. "C": ON, "H": OFF Dolby amplifier REC/PB control output. "L": REC, "H": PB. Playback equalizer characteristic switch output. "H": Normal, "L": CrO2 or Metal. Signal input from the AMS amplifier(IC304). With music: "H", No music: "L".
60 61 62 63 64	AMS/BS PASS L MUTE AVcc Vcc	0 0 0 0	Not used. Not used(connect to ② pin). Line mute control output. "H": MUTE. Power supply terminal(+5.6 V). Power supply terminal(+5.6 V).

*1 Test mode

When the power is on and pin $\mathfrak D$ is set to "L"(CNP703 is shortened.), the set enters the electrical adjustment test mode and the followings can be available.

(1) Source monitor

Recording signals can be monitored through the LINE OUT terminal(see page 7) because the line short is removed in recording.

(2) Recording memory

Recording memory is set to ON when the tape counter is reset at the record start point.

IC701 mechanism controller M50747-B83SP

The mechanism deck is controlled by receiving data from IC702 (system controller).

Pin No.	Pin Name	1/0	Description
1 2 3 4 5	Vcc BCTRQ SPEED TYPE 1 TYPE 2	0 0 0 0	Power supply terminal(+5.6 V). Assist motor torque control output. Not used(open). REC EQ select output. NORMAL tape: "H" REC EQ select output. CrO2 tape: "H"
6~9 10 11 12 13	REVTAB 70 µs METAL HALF	O I I I	Not used. REC switch(reverse:S1009)input. "H": When REC claw is broken. 70 \(\mu \) switch(S1008)input. "H": 70 \(\mu \)s, "L": 120 \(\mu \)s (time constant of playback EQ). METAL switch(S1007)input. "H": METAL tape, "L": NORMAL or CrO2 tape. HALF switch(S1006)input. "L": When a tape is mounted.
14 15 16,17 18 19	S REEL T REEL SCLK	I I — I	Supply reel base sensor(IC1001)input. Take-up reel base sensor(IC1002)input. Not used(GND). Not used(open). Data transmission clock input from IC702.
20 21 22 23~25 26	SO SI REQ INT	0 I O —	Serial data output to IC702. Serial data input from IC702. Data request output to IC702. Not used(open). Not used(+5.6 V).
27 28 29 30 31	CN Vss RES XIN XOUT \$\phi\$	I I O	Power supply terminal(GND). Reset input. "L": Reset. Clock input(4 MHz). Clock output. Not used.
32 33~50	Vss	<u> </u>	Power supply terminal(GND). Not used.

Pin No.	Pin Name	1/0	Description
51	ASSIST1	0	Head base is"H" when turned to the FWD direction.
52	ASSIST2	0	Head base is "H" when turned to the RVS direction.) *1
53	REEL 1	0	Reel motor rotation control output. Reverse: "H" \2
54	REEL 2	0	Reel motor rotation control output. Forward: "H" /*2
55	TQ1	0	Reel motor torque control output. PLAY: "H" *3
56	TQ2	0	Reel motor torque control output. FF/REW: "H"
57~60	CAM1-4	I	Rotary encoder input to detect the position of the head base of the mechanical block. *4
61	OPEN	I	OPEN switch(S1004)input. "L": When the cassette holder completely opens.
62	CLOSE	I	CLOSE switch(S1003)input. "L": When the cassette holder completely closed.
63	DOOR	I	DOOR switch(S1002)input. "L": When the cassette holder is driven from open to close state.
64	FWDTAB	I	REC switch (forward: S1005) input. "H": When REC claw is broken.

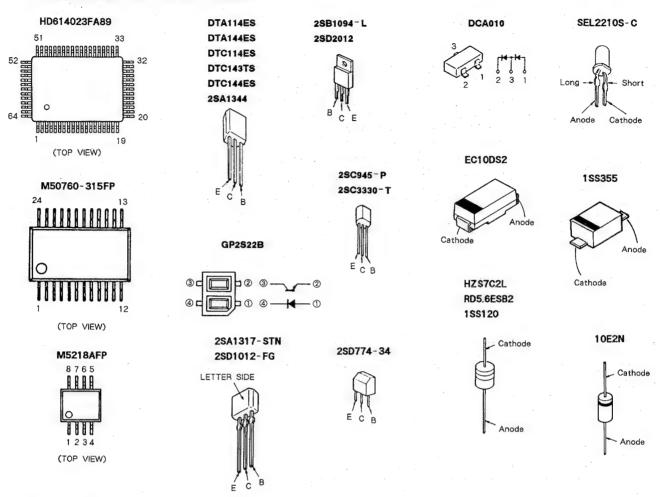
*1		STOP	Turn to FWD directiom	Turn to RVS direction	STOP
	ASSIST 1	L	Н	L	Н
	ASSIST 2	L	L	Н	Н

*2		ST0P	FWD/CLOSE	REV/OPEN	BRAKE
	REEL 1	L	L	Н	Н
	REEL 2	L	H	L	Н

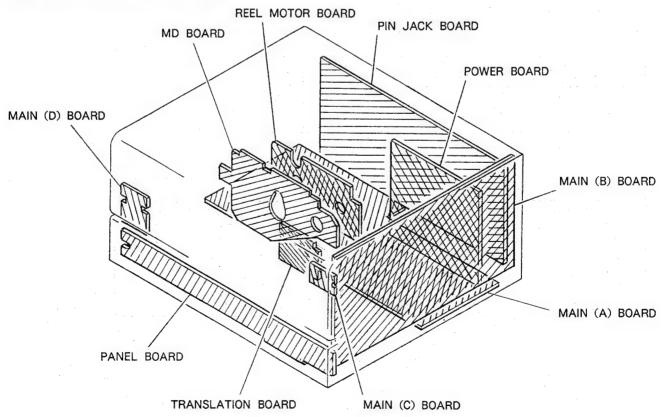
3		OPEN/CLOSE (large torque)	FF/REW (medium torque)	PLAY (small torque)	INHIBIT
	TQ 1	L	L	Н	Н
	TQ 2	L	Н	L	Н

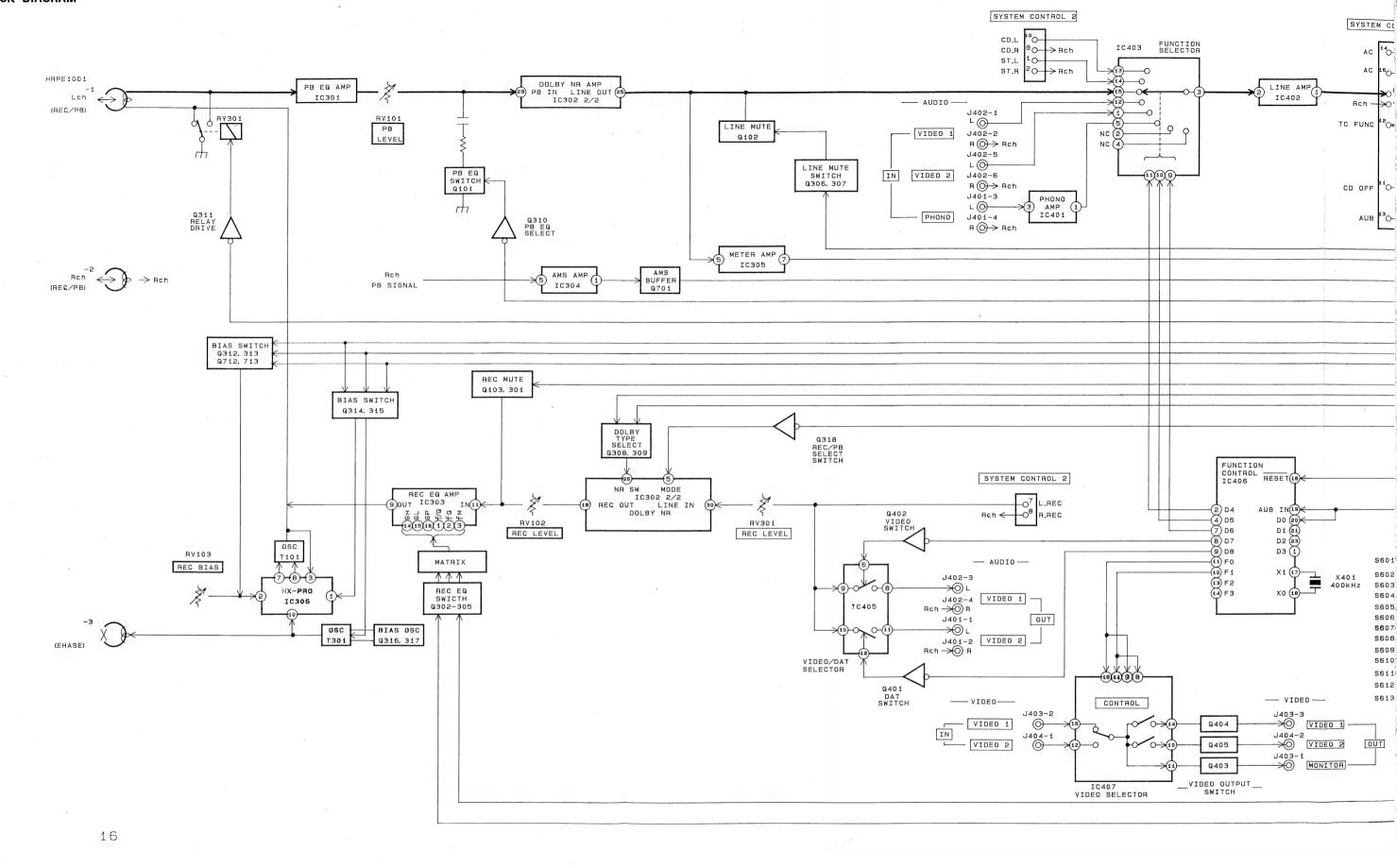
	٠.	For	ward			Reverse						
	FWD PLAY	AMS/PAUSE	STOP	FF/REW	EJECT	FF/REW	STOP	AMS/PAUSE	RVS PLAY			
CAM1	Н	Н	L	Н	L	Н	L	Н	Н			
CAM2	Н	L	Н	Н	L	Н	Н	L	Н			
CAM3	Н	Н	Н	Н	Н	. L	L	L	L			
CAM4	Н	Н	Н	L	L	L	Н	Н	Н			

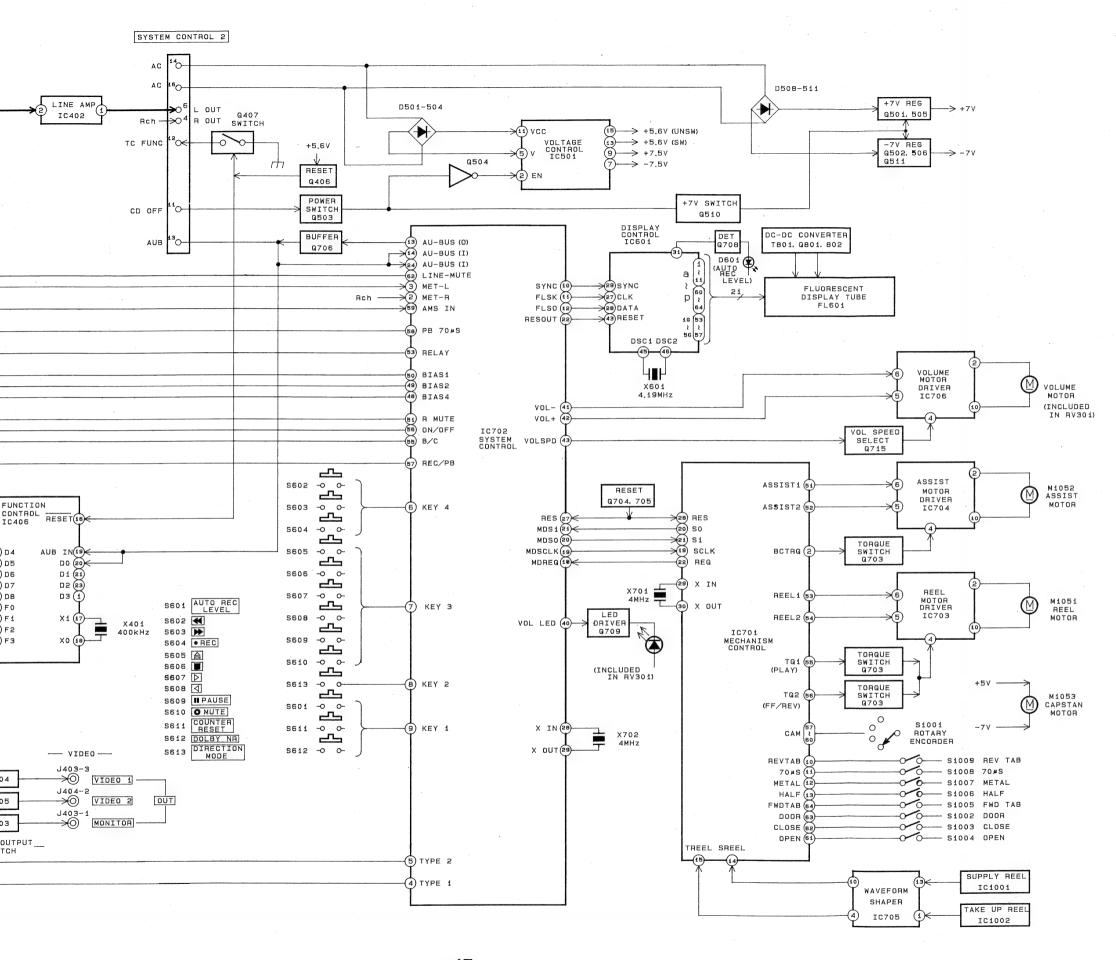
5-2. SEMICONDUCTOR LEAD LAYOUTS



5-3. CRICUIT BOARDS LOCATION

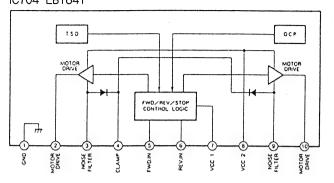


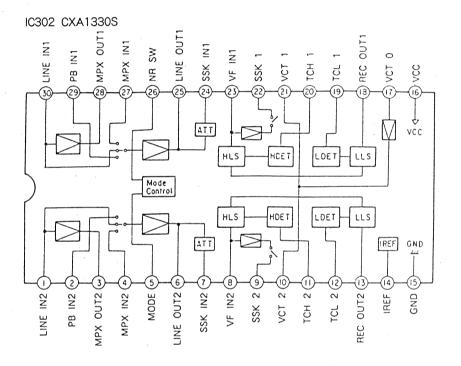




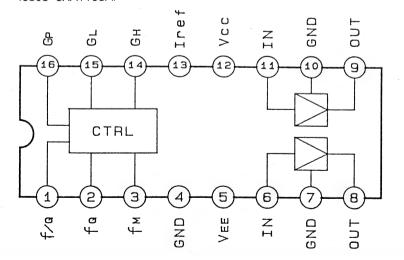
· IC BLOCK DIAGRAM

IC703,706 BA6219B IC704 LB1641





IC303 CXA1198AP

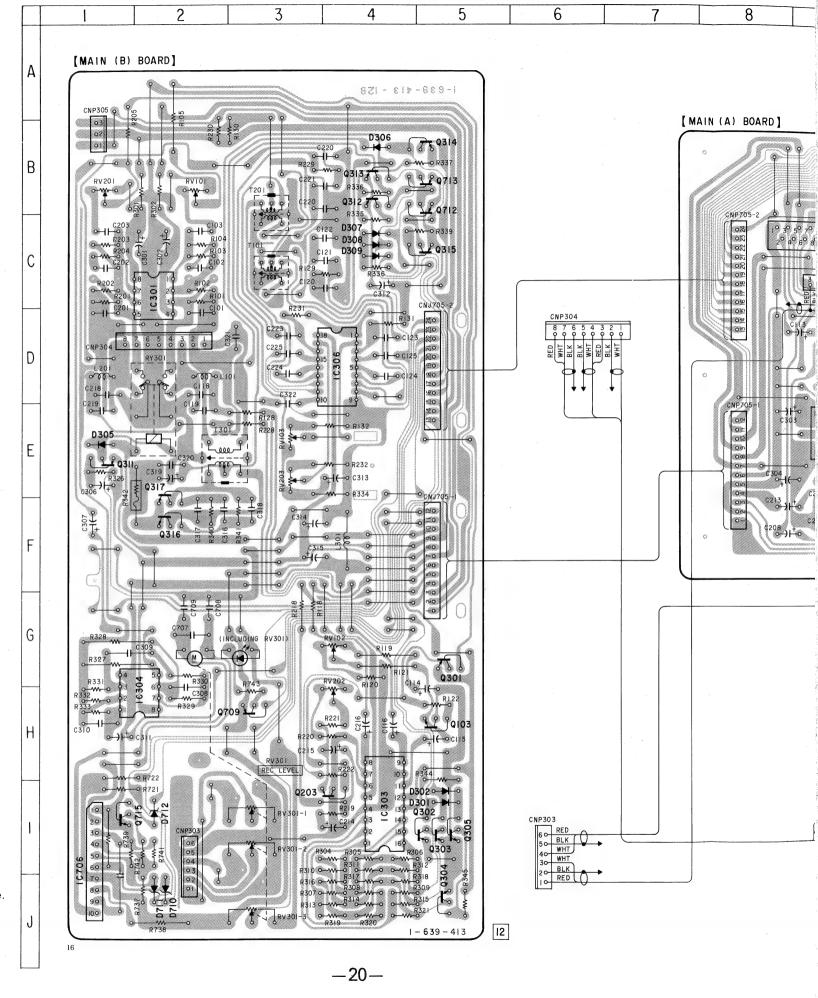


Semiconductor Location

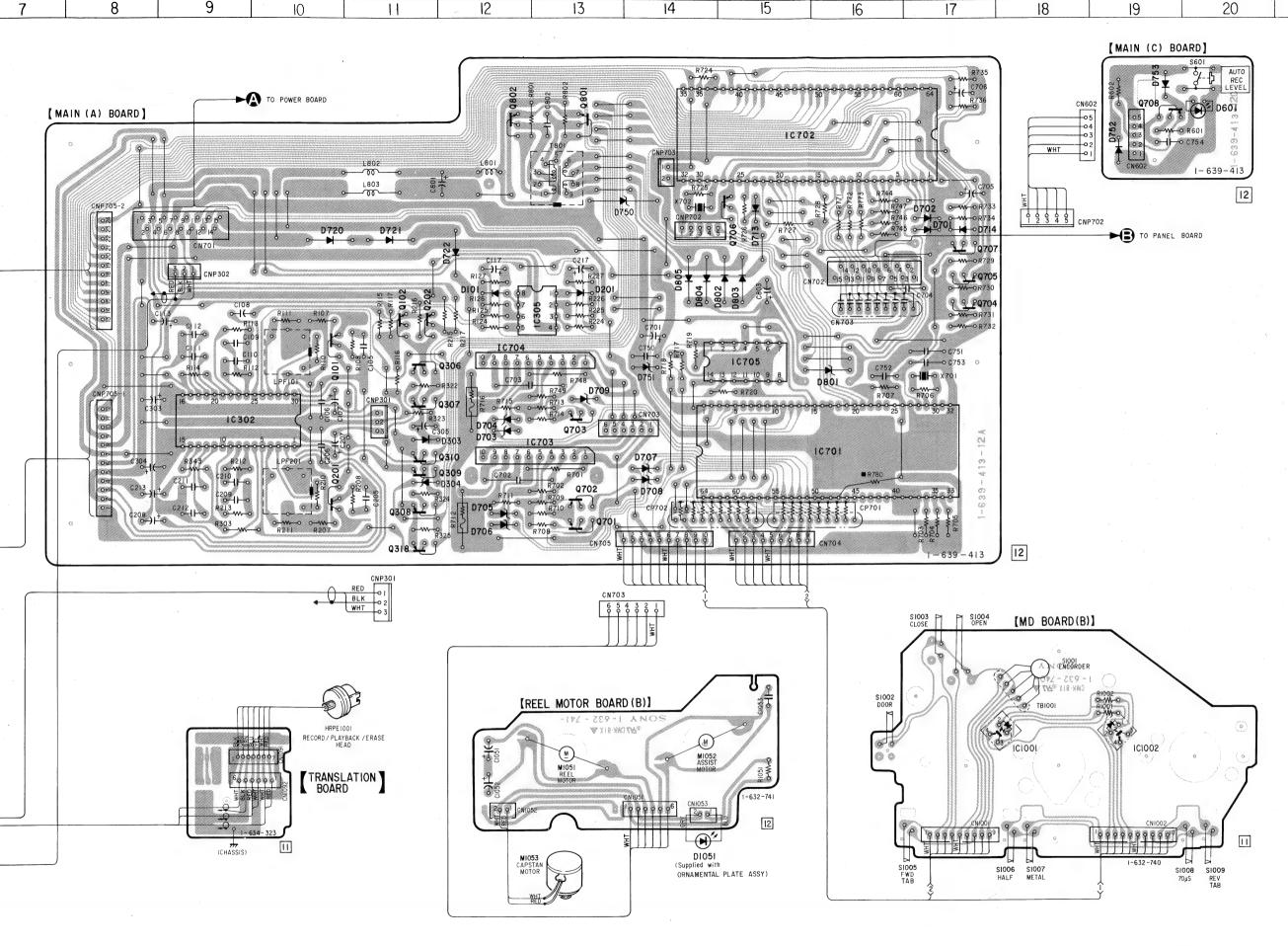
Ref. No.	Location	Ref. No.	Location
D101 D201 D301 D301 D302 D303 D304 D305 D306 D307 D308 D309 D701 D702 D703 D704 D705 D706 D707 D708 D709 D711 D712 D713 D714 D720 D751 D752 D753 D801 D802 D803 D804 D805	C-13 -15 -15 -111 -14444077722244432225701123499655544 -15 -16 -17 -17 -17 -17 -17 -17 -17 -17	Q306 Q307 Q308 Q309 Q311 Q312 Q313 Q314 Q315 Q316 Q317 Q318 Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q709 Q712 Q713 Q715 Q801 Q802	D-11 E-11 E-11 E-11 E-11 E-11 E-11 E-13 E-13
IC301 IC302 IC303 IC304 IC305 IC306 IC701 IC702 IC703 IC704 IC705 IC706 IC1001 IC1002	C-2 E-9 I-4 H-2 D-13 D-4 E-16 B-15 E-13 D-13 D-15 I-1 H-18 H-19		
Q101 Q102 Q103 Q201 Q202 Q203 Q301 Q302 Q303 Q304 Q305	D- 10 D- 11 H- 5 F- 10 D- 11 I- 4 G- 5 I- 5 I- 5 J- 5		

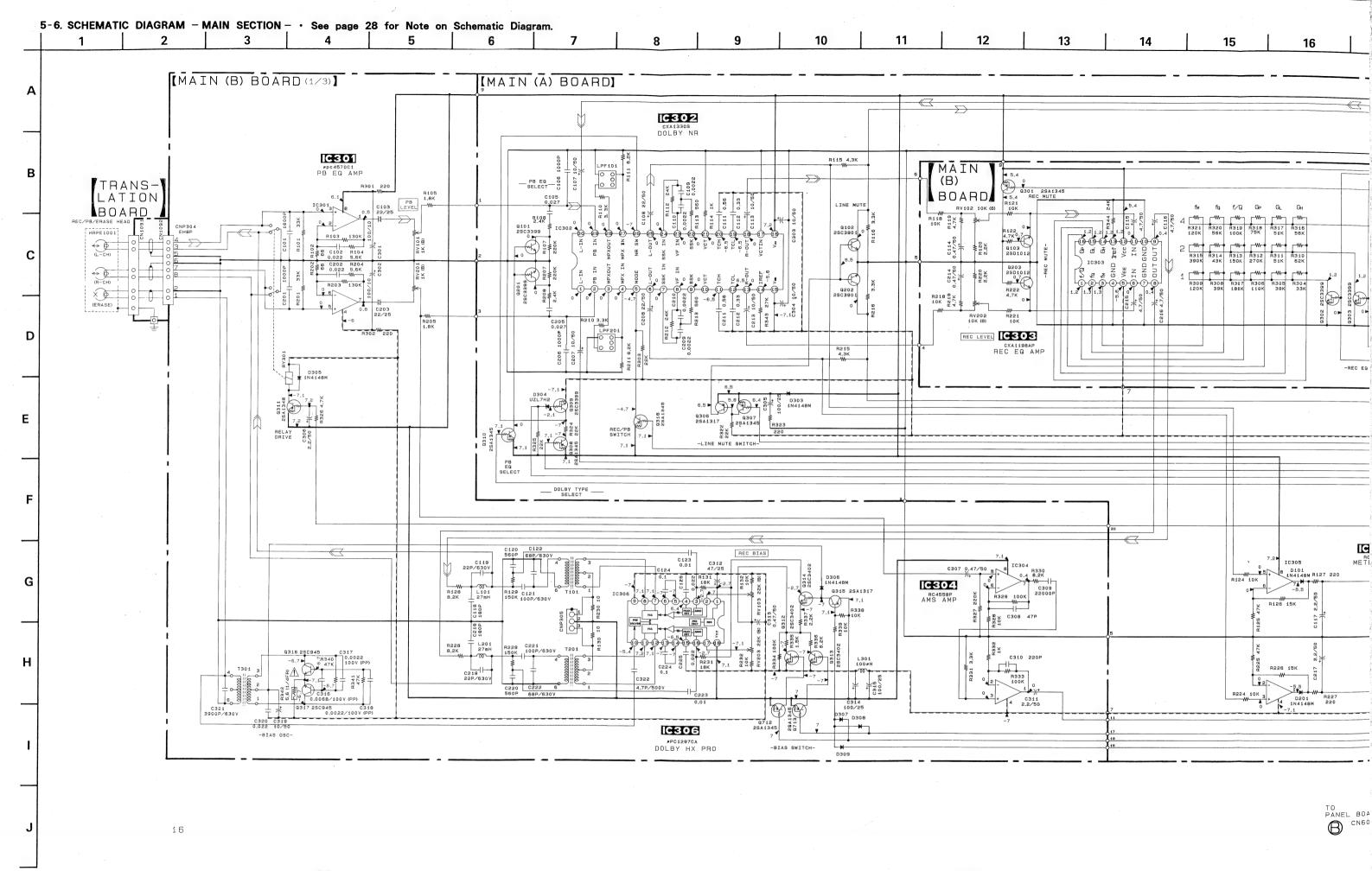
Note on Mounting Diagram:

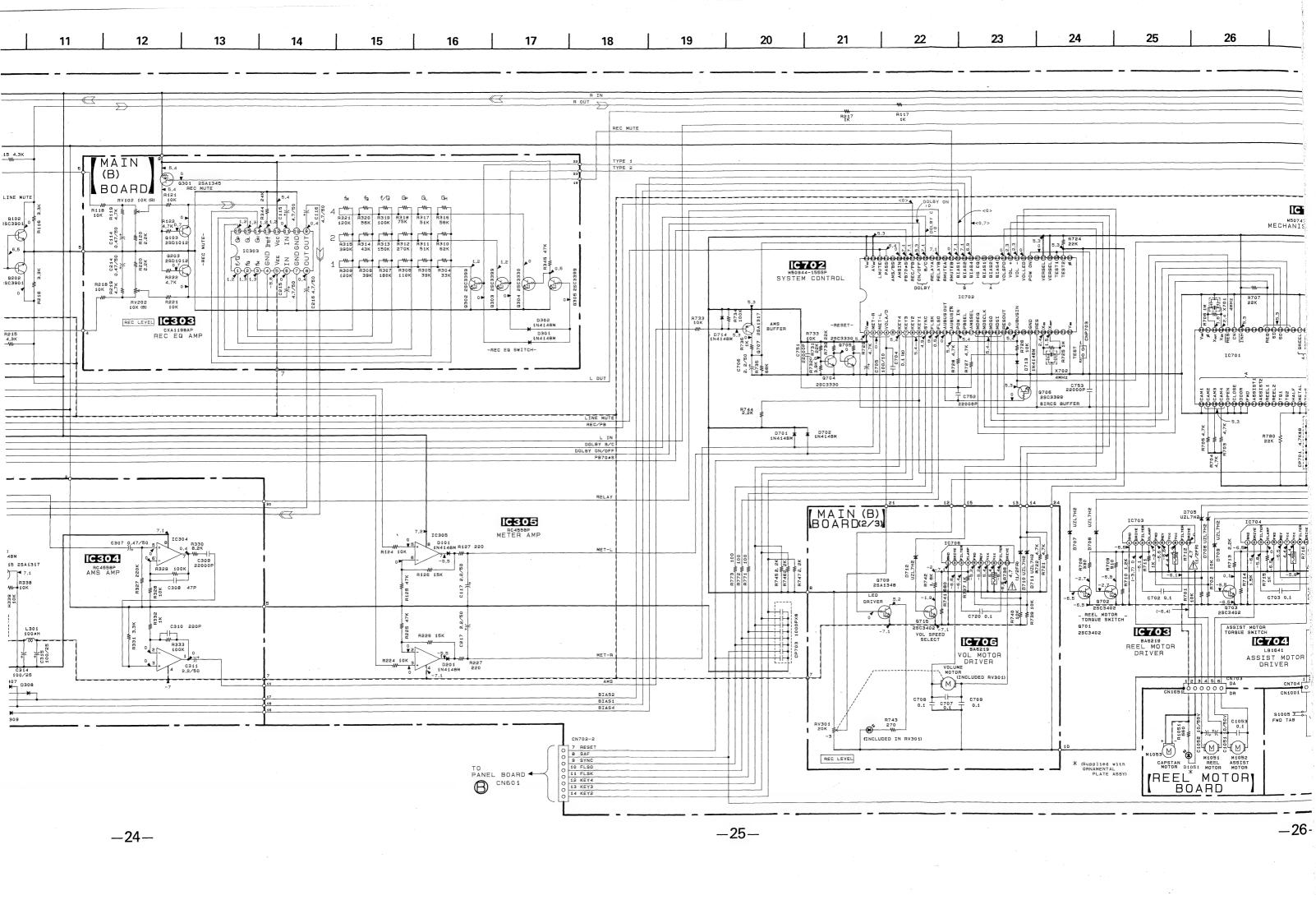
- o---: parts extracted from the component side.
- : parts mounted on the conductor side.

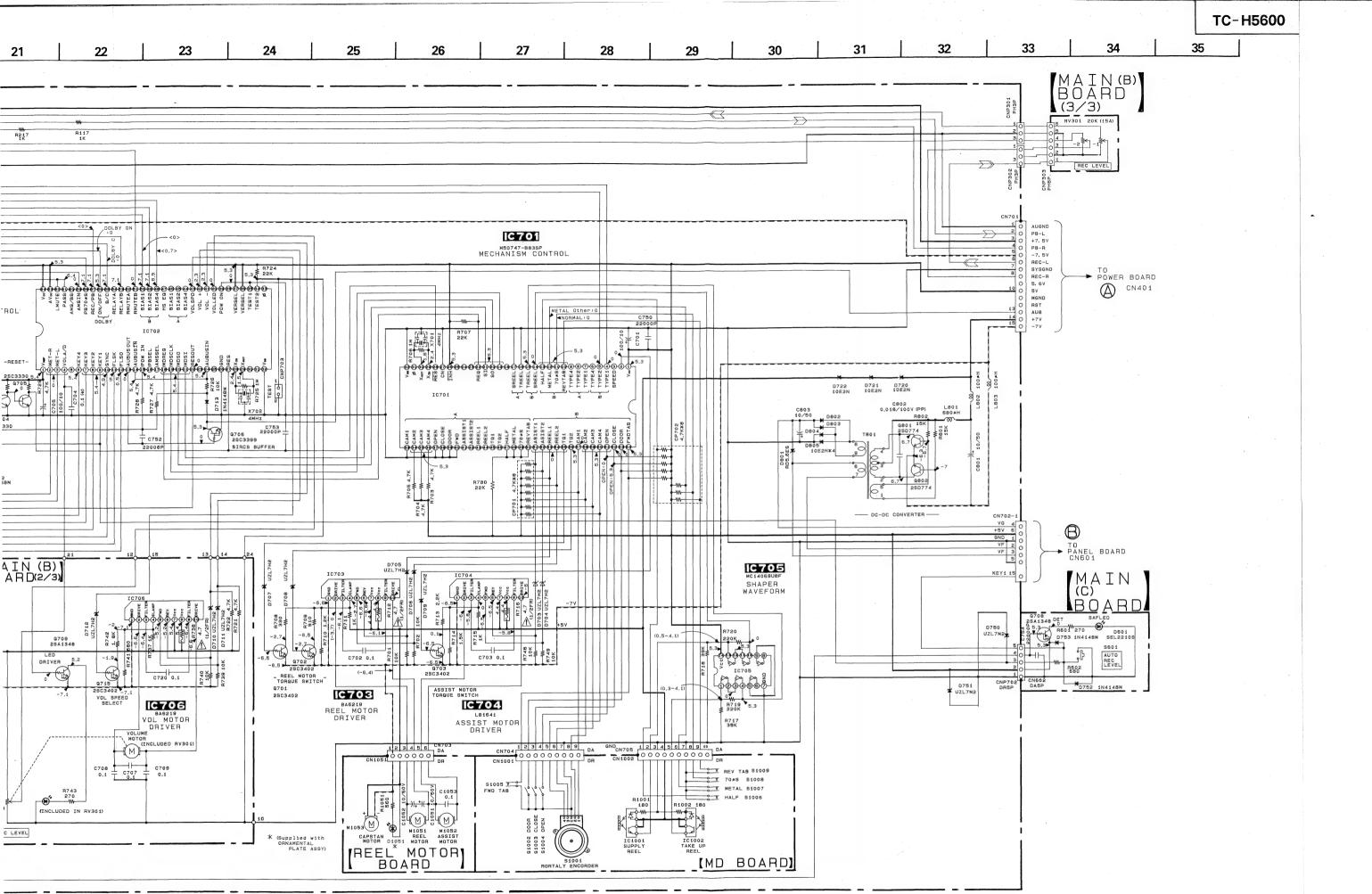


5-5. PRINTED WIRING BOARDS - MAIN SECTION - · See page 14 for Semiconductor Lead Layouts and Circuit Boards Location









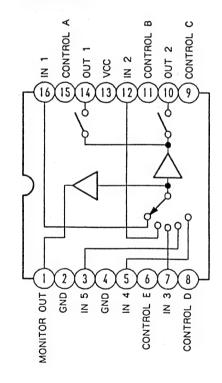
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· IC BLOCK DIAGRAM

IC501 LA5603

Cd RES Vcc (II) V REF. -(13) Vo 1 Vo 2 (9) C. LIM. RES. GEN. (2) Cn 1 Cn 2 (10) THERMAL PRL. (3) V quick GND (8) ON · OFF VCC \$ 60K Cn 3 6 | i≈140 μ A Vo 3 ₹30K 4 V mute ≈2.4V VEE (5) EN CnA VoA1 VoA2 delay

IC407 BA7625



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- fusible resistor.

Note:

Note:
The components identified by mark A or dotted line with mark are critical for safety. Replace only with part number specified.

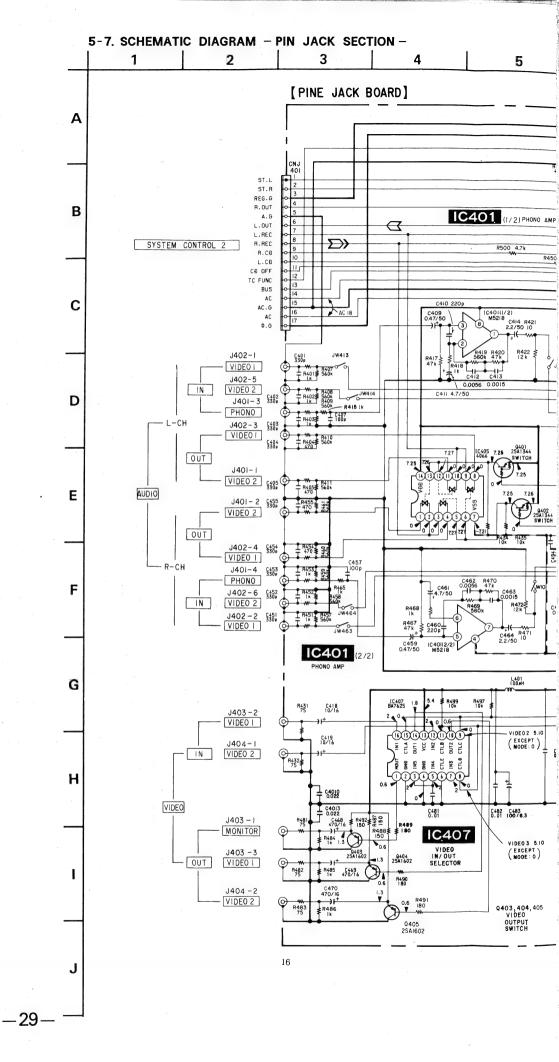
- : B+ Line
- === : B- Line
- adjustment for repair.

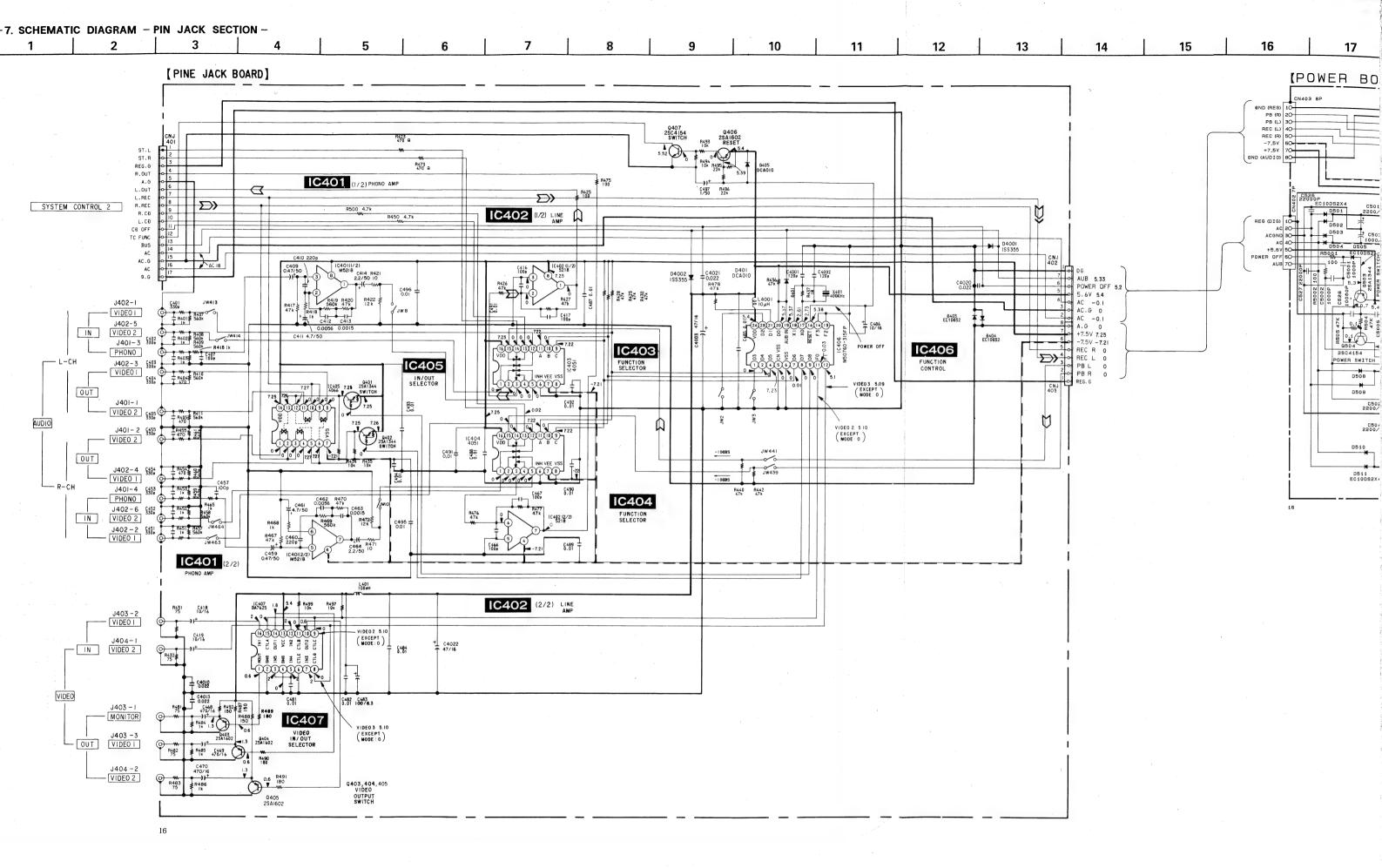
no mark: STOP): PB

< >: REC

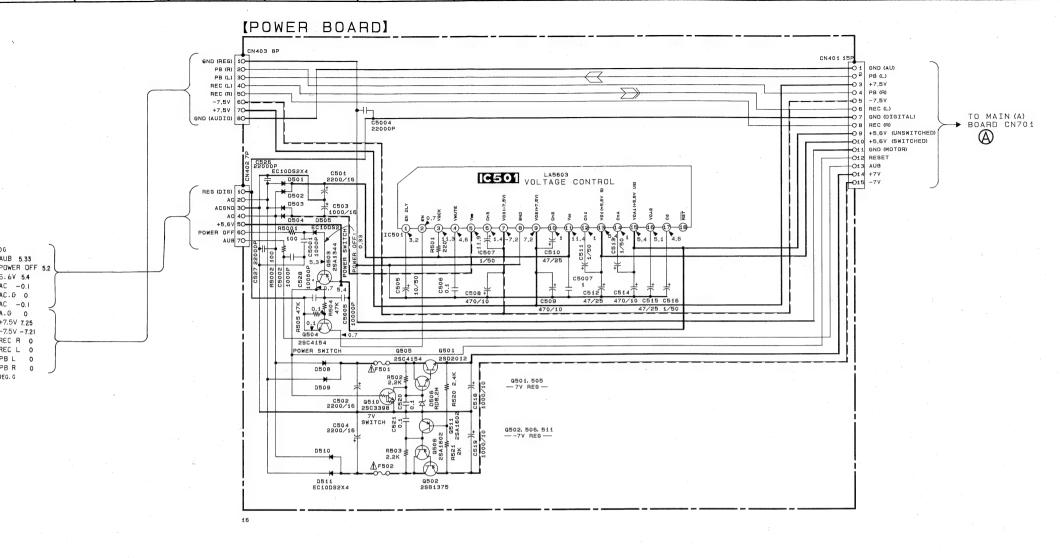
- Voltages are taken with a VOM (50 $k\Omega/V$). Voltage variations may be noted due to normal production tolerances.
- Signal path.

∑ : PB ∑> : REC





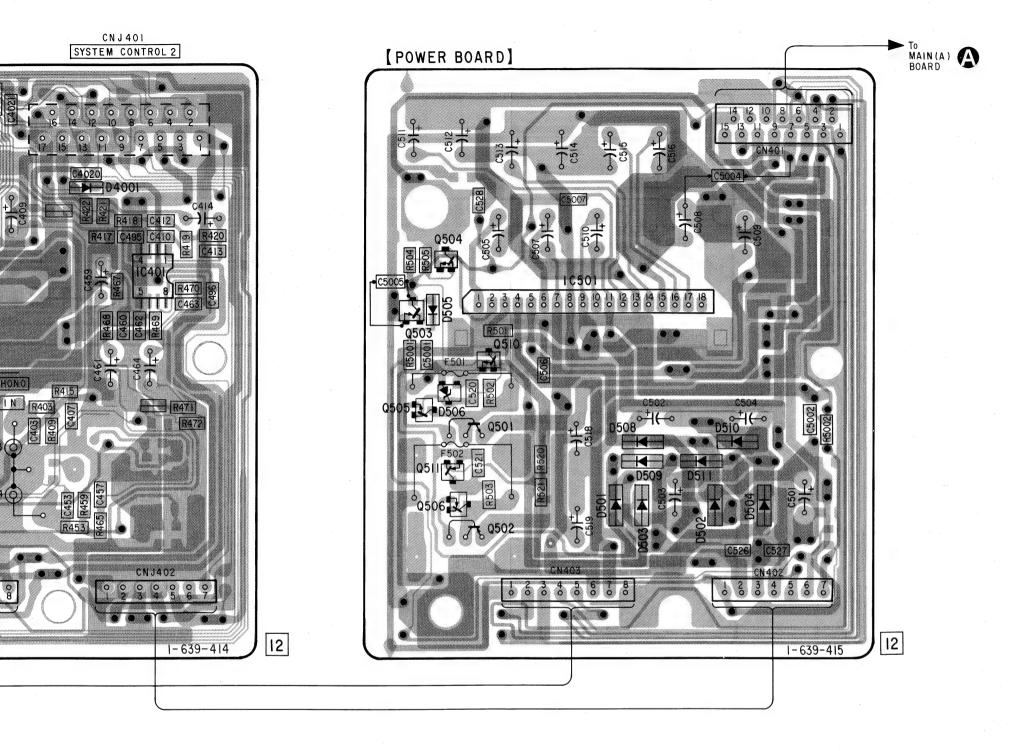
14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25



-32-

-33-

8	9	10	11	12	13	14



Semiconductor Location

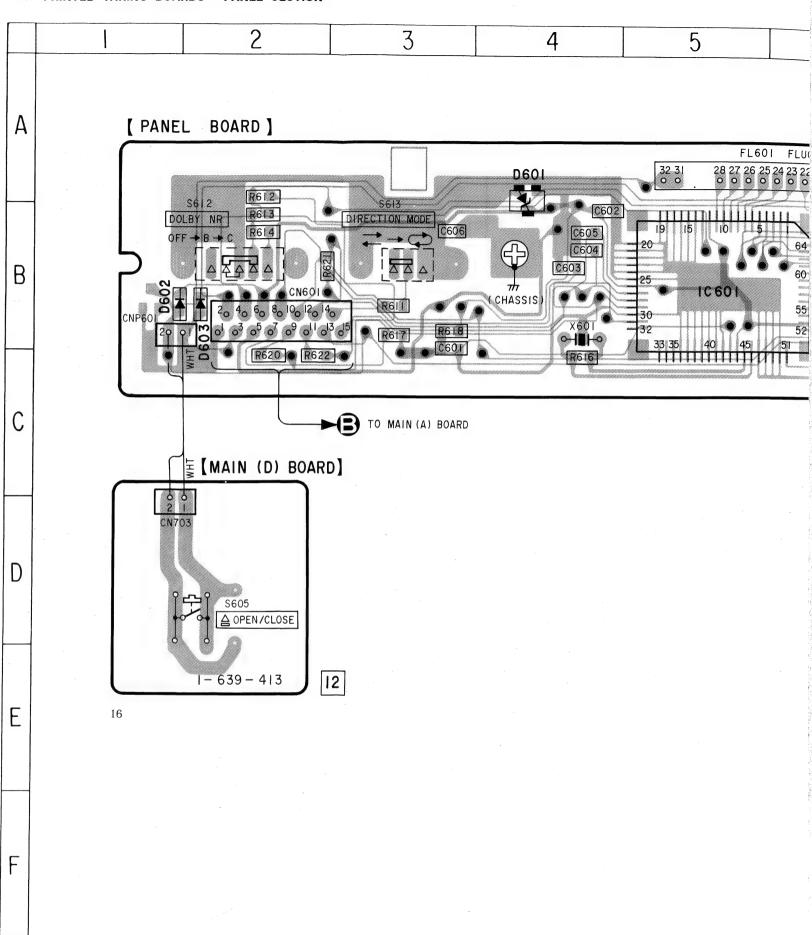
• Semico	nductor
Ref. No.	Location
D401 D403 D404 D405 D501 D502 D503 D504 D505 D506 D508 D509 D510 D511 D4001 D4002	A-3 A-6 A-6 B-3 D-12 D-13 D-12 D-13 C-11 D-12 D-13 D-12 B-8 A-7
IC401 IC402 IC403 IC404 IC405 IC406 IC407 IC501	C-8 C-2 C-3 E-2 E-3 B-2 B-4 C-12
Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q501 Q502 Q503 Q504 Q505 Q506 Q510 Q511	E-3 E-4 B-5 B-5 B-2 D-11 D-11 C-10 B-11 D-11 C-11

Note on Mounting Diagram

- o---: parts extracted from the component side.
- : parts mounted on the conductor side.
- : Through hole.
- Pattern on the side which is seen.
- Pattern of the rear side.

· Semiconductor Location

Ref. No.	Location
D601	A-4
D602	B-1
D603	B-2
IC601	D E
	B-5



Note on Mounting Diagram:

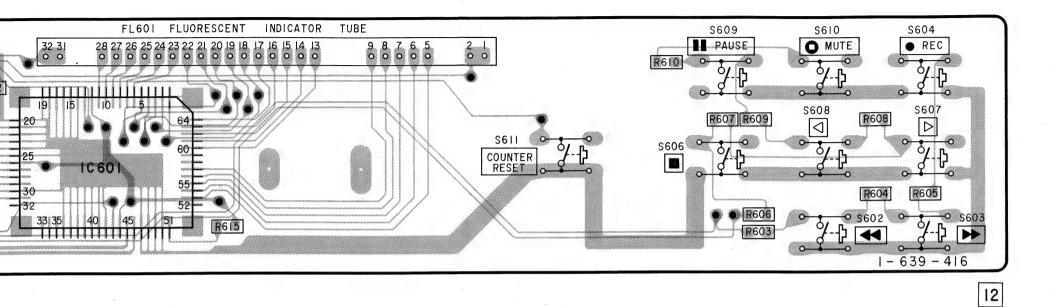
• o---: parts extracted from the component side.

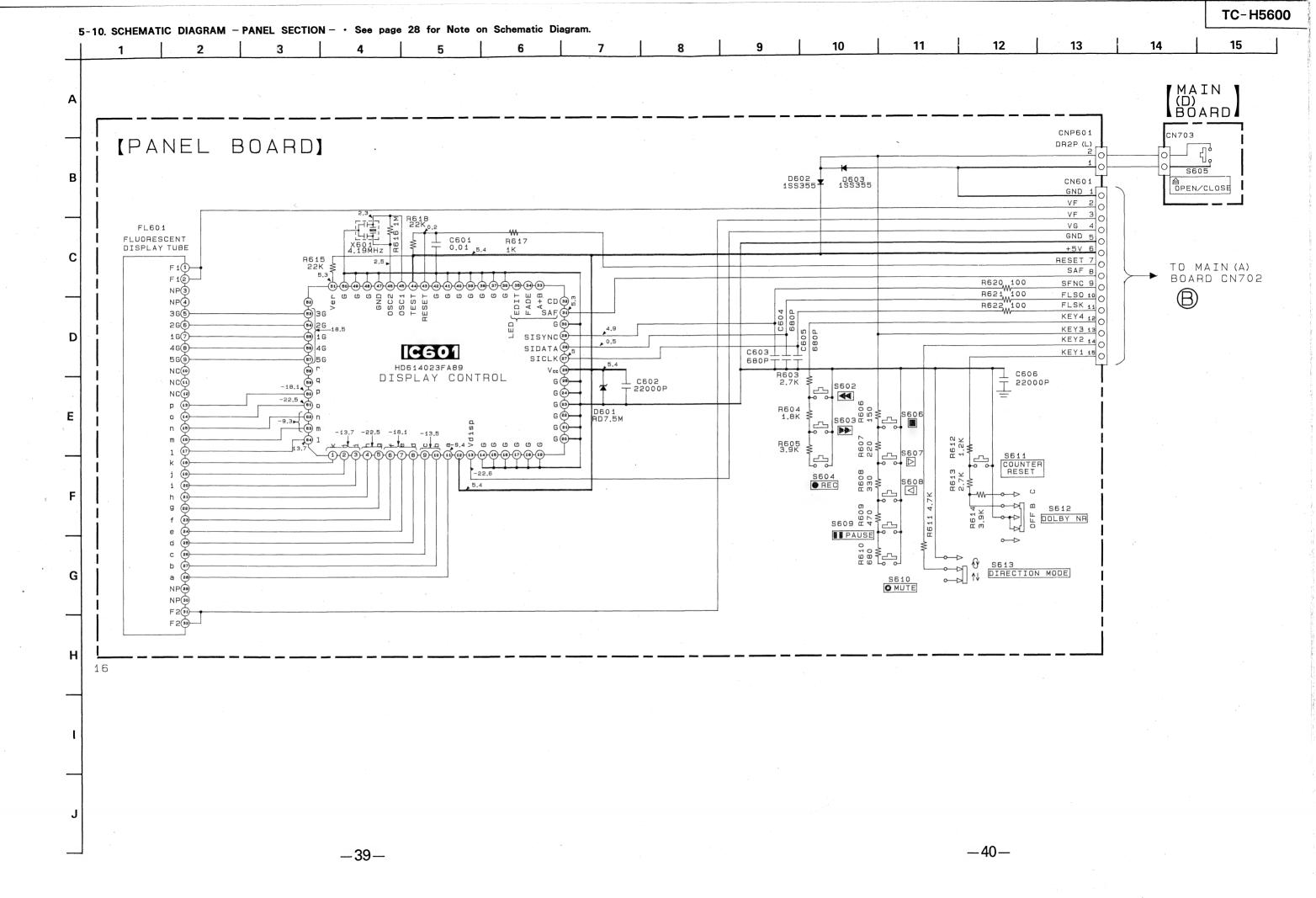
Through hole.

Pattern on the side which is seen.

• Pattern of the rear side.

	,	Y				
5	6	7	8	9	10	12





SECTION 6 EXPLODED VIEWS

NOTE:

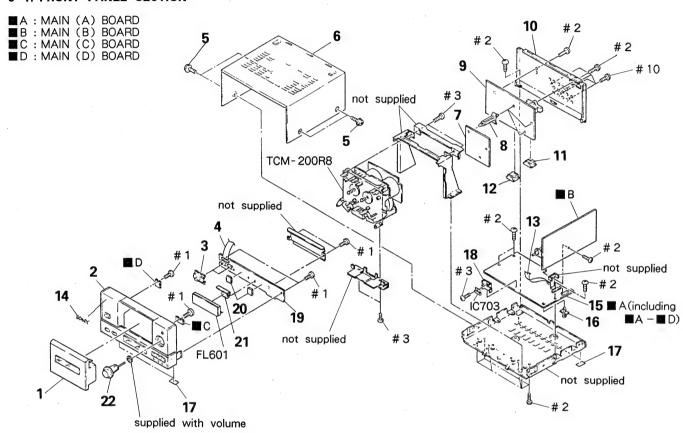
- XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

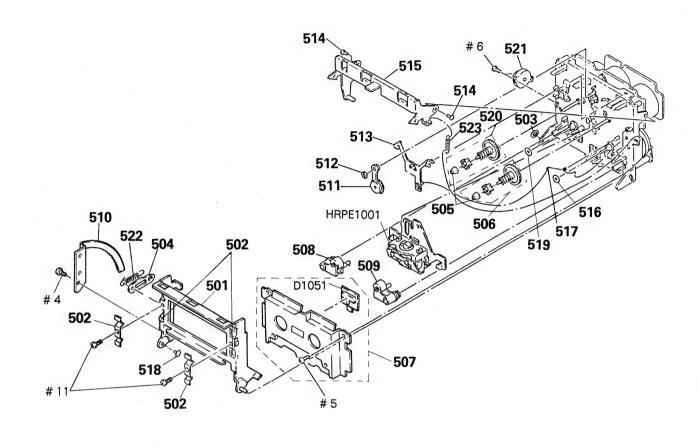
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

6-1. FRONT PANEL SECTION



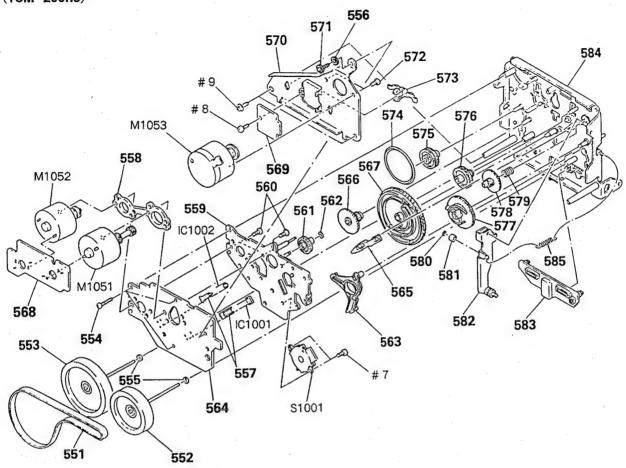
5 (Nie Des Ne	Depositation.	D I	Ref. No. Box No. Box into	
Ref.	No. Part No.	Description	Remarks	Ref. No. Part No. Description Rer	narks
1	A-2003-769-A	LID ASSY, CASSETTE		13 1-575-664-11 WIRE, FLAT TYPE (15 CORE)	
2	A-2003-768-A	PANEL ASSY, FRONT	2	14 4-942-636-01 EMBLEM (NO. 3. 5), SONY	
3	3-368-105-01	KNOB (SLIDE)		15 * A-2006-452-A MAIN BOARD, COMPLETE	
4	1-575-906-11	WIRE, FLAT TYPE (15 CORE)		16 * 3-350-847-31 HOLDER, PCB	
5	3-363-099-01	SCREW (CASE +3X8 TP2)		17 4-930-336-01 F00T (FELT)	
6	4-932-841-01	CASE		18 * 3-356-925-01 HEAT SINK	
7	* 1-639-415-11	POWER BOARD		19 * A-2006-453-A PANEL BOARD, COMPLETE	
8	* 3-703-353-02	SUPPORT, PC BOARD		20 * 4-921-941-01 CUSHION (FL)	
9	* A-2006-548-A	PIN JACK BOARD, COMPLETE		21 * 3-368-109-01 HOLDER, FL TUBE	
10	* 3-367-074-01	PANEL, BACK		22 A-2003-767-A KNOB (REC VOL.) ASSY	
11	* 1-573-188-11	CONNECTOR, BRIDGE 7P		FL601 1-519-656-11 INDICATOR TUBE, FLUORESCENT	
12	* 1-573-389-11	COONECTOR, BRIDGE 8P		IC703 8-759-973-95 IC BA6219B	

6-2. MECHANISM SECTION-1 (TCM-200R8)



Ref	No. Part No.	Description	Remarks	Ref. No.	Part No.	<u>Description</u>	<u>Remarks</u>
501	X-3362-956-1	HOLDER ASSY, CASSETTE		514	3-356-601-11	SCREW, STEP	
502	3-354-908-01	SPRING (CASSETTE RETAINER)		515 *	X-3356-608-1	LEVER (LIFTER) ASSY	
503	3-558-708-21	WASHER, STOPPER		516	3-356-713-01	WASHER	
504	* 3-356-717-01	LEVER (JOINT)	·	517	3-356-619-01	SPRING (B), TORSION	
505	3-362-308-01	CAP (REEL)		518	3-356-710-01	SHAFT (LEFT) (CASSETTE HOLDER)	
506	X-3356-627-1	GEAR (T) ASSY		519	3-356-714-01	WASHER	
507	X-3356-613-1	PLATE ASSY, ORNAMENTAL	İ	520	X-3356-628-1	GEAR (S) ASSY	
508	X-3343-455-1	LEVER (PINCH F) ASSY		521	3-712-786-01	DAMPER, OIL	
509	X-3343-456-1	LEVER (PINCH R) ASSY		522	3-356-626-01	SPRING, TENSION	
510	X-3362-957-1	GEAR ASSY, LOADING		523	3-356-625-01	SPRING, TENSION	
511	X-3356-641-1	LEVER (FR2) ASSY		D1051	8-719-980-85	DIODE SLF-325C	
512	3-669-465-11	WASHER (1.5), STOPPER		HRPE1001	A-2003-772-A	BASE ASSY, HEAD	
513	3-356-614-01	SLIDER (BRAKE)					

6-3. MECHANISM SECTION-2 (TCM-200R8)



Ref. I	No. Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
551	3-356-730-01	BELT (CAPSTAN R2)		571	3-356-707-01	SCREW (+PTPWH 2X25)	
552	X-3356-642-1	FLYWHEEL (R FWD) ASSY		572	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
553	X-3356-643-1	FLYWHEEL (R REV) ASSY		573	3-575-321-00	RETAINER, THRUST, CAPSTAN	
554	3-355-801-01	SCREW (BTP 2X18)		574	3-356-603-01	BELT (MODE)	
555	3-356-705-01	WASHER (CAPSTAN)		575	3-356-607-01	PULLEY (MODE)	
556	* 3-356-718-01	SPACER (THRUST RETAINER R)		576	3-356-703-01	GEAR (COMMUNICATION C)	
557	3-356-631-01	HOLDER (SENSOR)		577	3-356-616-01	GEAR (LOADING CAM)	
558	* 3-356-628-01			578	3-356-609-01	GEAR (LOADING)	
559	* X-3356-602-4			579	3-356-605-01	SPRING, COMPRESSION	
560	3-363-804-01	SCREW (+P 2.6X6.5)		580	3-558-708-11	WASHER, STOPPER	
							•
561	3-356-702-01	GEAR (COMMUNICATION B)		581	3-356-630-01	ROLLER (LOADING)	
562	3-669-465-00	WASHER (1.5), STOPPER		582 *	X-3356-606-1	LEVER (LOADING) ASSY	
563	3-356-613-01	LEVER (MODE)		583	3-356-612-01	SLIDER (REVERSE)	
564	* 1-632-740-11	MD BOARD		584	X-3356-634-1	CHASSIS (R2)COMPLETE ASSY, MECH	
565	3-356-617-01	LEVER (SELECTION)		585	3-356-624-01	SPRING, TENSION	
566	3-356-606-01	GEAR (MODE)		IC1001	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
567		GEAR (MODE CAM RR)		101002	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
568	* 1-632-741-11			M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
569	* 1-634-323-11	TRANSLATION BOARD		M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
570	* 3-356-629-01	BRACKET (THRUST RETAINER R)) ·	M1053	X-3356-635-1	MOTOR (CAPSTAN R2) ASSY	
				\$1001	1-466-525-11	ENCODER, ROTARY	

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SECTION 7 ELECTRICAL PARTS LIST

- Due to standardization, replacements in the parts list may be defferent from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL: metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
 in each case, u: μ, for example: uA...: μA..., uPA..., μPA..., uPB..., μPB..., μPC..., μPC..., μPC...
 uPD..., μPD...
- CAPACITORS:
 uF: μF
 COILS
 uH: μH
- Ref. No. Part No. Description Remarks Ref. No. Part No. Description Remarks * A-2006-452-A MAIN BOARD, COMPLETE C202 1-136-157-00 FILM 0. 022uF 5% 50V *************** C203 1-124-282-00 ELECT 22uF 20% 25V C205 1-136-158-00 FILM 0. 027uF 5% 50V * 1-573-496-11 HOUSING, CONNECTOR 12P C206 1-162-294-31 CERAMIC 0.001uF 10% 50V * 1-573-497-11 PIN, CONNECTOR (PC BOARD) 12P C207 1-124-907-11 ELECT 10uF 20% 50V * 3-356-925-01 HEAT SINK 7-682-547-04 SCREW +BVTT 3X6 (S) C208 1-126-233-11 ELECT 22uF 20% 50V C209 1-130-475-00 MYLAR 0 00220E 50V 5% (CAPACITOR) C210 1-130-475-00 MYLAR 0 0022uE 5% 50V C211 1-136-174-00 FILM 0. 56uF 5% 50V C101 1-162-294-31 CERAMIC 0.001uF 10% 50V C212 1-136-171-00 FILM 0.33uF 5% 50V C102 1-136-157-00 FILM 0. 022uF 5% 50V C103 1-124-282-00 ELECT 22uF 20% 25V 1-124-907-11 ELECT C213 10uF 20% 50V C105 1-136-158-00 FILM 0 027uF 5% 50V C214 1-124-902-00 ELECT 0. 47uF 20% 50V C106 1-162-294-31 CERAMIC 0 001pF 10% 50V C215 1-124-927-11 ELECT 4. 7uF 20% 1000 C216 1-124-927-11 ELECT 4. 7uF 20% 1000 C107 1-124-907-11 ELECT 10uF 20% 50V C217 1-124-925-11 ELECT 2. 2uF 20% 100V C108 1-126-233-11 ELECT 22uF 20% 50V 1-130-475-00 MYLAR C109 0.0022uF 5% 50V C218 1-162-285-31 CERAMIC 180PF 10% 50V 1-130-475-00 MYLAR C110 0.0022uF 5% 50V C219 1-136-935-11 FILM 22PF 5% 630V C111 1-136-174-00 FILM 0. 56uF C220 5% 50V 1-130-468-00 MYLAR 560PF 5% 50V C221 1-136-433-11 FILM 100PF 5% 630V C112 1-136-171-00 FILM 0. 33uF 50V 5% C222 1-136-272-00 FILM 68PF 630V 5% C113 1-124-907-11 ELECT 10uF 20% 50V 1-124-902-00 ELECT 0. 47uF C114 20% 50V C223 1-136-153-00 FILM 0. 01uF 50V 5% 1-124-927-11 ELECT C115 4: 7uF 20% 100V C224 1-136-165-00 FILM 50V 0. 1uF 5% 1-124-927-11 ELECT C116 4. 7uF 20% 100V C225 1-136-157-00 FILM 0. 022uF 5% 50V C301 1-124-443-00 FLECT 100uF 20% 10V C117 1-124-925-11 ELECT 2. 2uF 20% 1007 C302 1-124-443-00 ELECT 100uF 20% 10V C118 1-162-285-31 CERAMIC 180PF 10% 50V C119 1-136-935-11 FILM 22PF 5% 630V C303 1-124-907-11 ELECT 10uF 20% 507 C120 1-130-468-00 MYLAR 560PF 5% C304 50V 1-124-907-11 ELECT 10uF 20% 50V C121 1-136-433-11 FILM 100PF C305 5% 630V 1-124-478-11 ELECT 100uF 20% 25V C306 1-124-925-11 ELECT 2. 2uF 20% 1007 C122 1-136-272-00 FILM 68PF 5% 630V C307 1-124-902-00 ELECT 0. 47uF 20% 50V C123 1-136-153-00 FUM 0. 01uF 5% 50V 1-136-165-00 FILM C124 0. 1uF 5% 50V C308 1-162-215-31 CERAMIC 47PF 5% 50V 1-136-157-00 FILM C125 0. 022uF 5% 50V C309 1-161-494-00 CERAMIC 0. 022uF 25V C201 1-162-294-31 CERAMIC 0.001uF 10% 50V C310 1-162-286-31 CERAMIC 220PF 10% 50V C311 1-124-925-11 ELECT 2. 2uF 20% 100V C312 1-124-477-11 ELECT 47uF 20% 25V

Ref. No.	Part No.	Description	<u>n</u> .		Remarks	Ref. No.	Part No.	D∈	scription		Rem	narks
C313	1-124-902-00	ELECT	0. 47uF	20%	50V			(D10D	E >			
C314	1-124-478-11	ELECT	100uF	20%	25V							
C315	1-124-478-11	ELECT	100uF	20%	25V	D101 ·	8-719-912-20	DIODE	1SS120			
C316	1-130-856-00		0. 0068uF	5%	100V	D201	8-719-912-20	DIODE	1SS120			
C317	1-136-230-00	FILM	0. 0022uF	5%	100V	D301	8-719-912-20	DIODE	1SS120		•	
						D302	8-719-912-20	DIODE	1SS120			
C318	1-136-230-00	FILM	0. 0022uF	5%	100V	D303	8-719-912-20	DIODE	1SS120			
C319	1-124-907-11		10uF	20%	50V							
C320	1-161-494-00	CERAMIC	0. 022uF	5%	25V	D304	8-719-933-50	DIODE	HZS7C2L			
C321	1-136-558-11		0. 0039uF	5%	630V	D305	8-719-912-20	DIODE	1SS120			
C322	1-107-046-00	MICA	4. 7PF		500V	D306	8-719-912-20	DIODE	1SS120			
						D307	8-719-912-20	DIODE	1SS120			
C701	1-124-443-00	ELECT	100uF	20%	10V	D308	8-719-912-20	DIODE	1SS120			
C702	1-164-159-11	CERAMIC	0. 1uF		50V							
C703	1-164-159-11	CERAMIC	0. 1uF		50V	D309	8-719-912-20	DIODE	1SS120			
C704	1-164-159-11	CERAMIC	0. 1uF		50V	D601	8-719-301-38	DIODE	SEL2210S-C	(AUTO REC LEVEL)		
C705	1-124-443-00	ELECT	100uF	20%	10V	D701	8-719-912-20	DIODE	1SS120			
						D702	8-719-912-20	DIODE	1SS120			
C706	1-124-925-11	ELECT	2. 2uF	20%	100V	D703	8-719-933-50	DIODE	HZS7C2L			
C707	1-164-159-11		0. 1uF		50V							
C708	1-136-165-00		0. 1uF	5%	50V	D704	8-719-933-50	DIODE	HZS7C2L			
C709	1-136-165-00		0. 1uF	5%	50V	D705	8-719-933-50		HZS7C2L			
C720	1-164-159-11		0. 1uF		50V	D706	8-719-933-50	DIODE	HZS7C2L			
						D707	8-719-933-50	DIODE	HZS7C2L			
C750	1-161-494-00	CERAMIC	0. 022uF		25V	D708	8-719-933-50		HZS7C2L			
C751	1-161-494-00	CERAMIC	0. 022uF		25V							
C752	1-161-494-00	CERAMIC	0. 022uF		25V	D709	8-719-933-50	DIODE	HZS7C2L			
C753	1-161-494-00	CERAMIC	0. 022uF		25V	D710	8-719-933-50	DIODE	HZS7C2L			
C754	1-161-494-00		0. 022uF		25V	D711	8-719-933-50	DIODE	HZS7C2L			
						D712	8-719-933-50		HZS7C2L			
C801	1-124-907-11	ELECT	10uF	20%	50V	D713	8-719-912-20	DIODE	1SS120			
C802	1-136-594-11		0. 018uF	5%	100V							
C803	1-124-907-11	ELECT	10uF	20%	50V	D714	8-719-912-20	DIODE	1SS120			
						D720	8-719-200-77	DIODE	10E2N	(
		(CONNECTOR)				D721	8-719-200-77	DIODE	10E2N			
						D722	8-719-200-77	DIODE	10E2N	•		
CN701 *	1-568-834-11	SOCKET, CONNEC	TOR 15P			D750	8-719-933-47	DIODE	HZS7B2L			
CN702 *	1-568-834-11	SOCKET, CONNEC	TOR 15P									
CNP301 *	1-564-705-11	PIN, CONNECTOR	(SMALL TYPE	E) 3P		D751	8-719-933-47	DIODE	HZS7B2L			
CNP302 *	1-564-705-11	PIN, CONNECTOR	(SMALL TYPE	E) 3P		D752	8-719-912-20	DIODE	1SS120			
CNP303 *	1-564-708-11	PIN, CONNECTOR	(SMALL TYPE	E) 6P		D753	8-719-912-20	DIODE	1SS120			
						D801	8-719-109-89	DIODE	RD5. 6ESB2			
CNP304 *	1-564-511-11	PLUG, CONNECTO	R 8P			D802	8-719-200-77	DIODE	10E2N			
CNP305 *	1-564-518-11	PLUG, CONNECTO	R 3P									•
CNP702 *	1-564-339-00	PIN, CONNECTOR	5P			D803	8-719-200-77	DIODE	10E2N			
CNP703 *	1-564-505-11	PLUG, CONNECTO	R 2P			D804	8-719-200-77	DIODE	10E2N			
						D805	8-719-200-77	DIODE	10E2N			
		< COMPOSITION	CIRCUIT BLO	CK >								
CP701	1-233-199-11	COMPOSITION CI	RCUIT BLOCK									
CP702		COMPOSITION CI										
CP703		COMPOSITION CI										
						•						

Ref. No	. Part No.	Desc	ription		Remarks	Ref. No.	Part No.	Descrip	tion		Remarks
		< IC >				0310	8-729-900-65	TRANSISTOR	DTA144ES		
						0311	8-729-900-61	TRANSISTOR	DTA114ES		
IC301	8-759-111-44	1C uPC4	1570C-1			0312	8-729-900-80	TRANSISTOR	DTC114ES		
10302	8-752-036-34	IC CXA1	330S			0313	8-729-900-80	TRANSISTOR	DTC114ES		
10303	8-752-038-02	IC CXA1	198AP			0314	8-729-900-80	TRANSISTOR	DTC114ES		
IC304	8-759-945-58	IC RC45	558P								
10305	8-759-945-58	IC RC45	558P			Q315	8-729-821-04	TRANSISTOR	2SA1317-STU		
						0316	8-729-194-57	TRANSISTOR	2SC945-P		
1C306	8-759-106-56	IC uPC1	297CA			0317	8-729-194-57	TRANSISTOR	2SC945-P		
IC701	8-759-633-86	IC M507	47-B83SP			Q318	8-729-900-65	TRANSISTOR	DTA144ES		
10702	8-759-634-79	IC M509	144-155SP			0701	8-729-900-80	TRANSISTOR	DTC114ES		
10703	8-759-973-95	IC BA62	19B								
IC704	8-759-822-09	IC LB16	41			0702	8-729-900-80	TRANSISTOR	DTC114ES		
						0703	8-729-900-80	TRANSISTOR	DTC114ES		
10705	8-759-240-69	IC TC40	69UBP			0704	8-729-820-24	TRANSISTOR	2SC3330-T		
10706	8-759-822-09	IC LB16	41			0705	8-729-820-24	TRANSISTOR	2SC3330-T		
						0706	8-729-900-89	TRANSISTOR	DTC144ES		
		< COIL >									
						0707	8-729-821-04	TRANSISTOR	2SA1317-STU		
L101	1-410-780-11	INDUCTOR	27mH			Q708	8-729-900-61	TRANSISTOR	DTA114ES		
L201	1-410-780-11	INDUCTOR	27mH			0709	8-729-900-61	TRANSISTOR	DTA114ES		
L301	1-408-080-00	INDUCTOR	100uH			0712	8-729-900-65	TRANSISTOR	DTA144ES		
L801	1-410-761-11	INDUCTOR	0.68mH			0713	8-729-900-65	TRANSISTOR	DTA144ES		
L802	1-408-575-11	INDUCTOR	100uH								
						0715	8-729-900-80	TRANSISTOR	DTC114ES		
L803	1-408-575-11	INDUCTOR	100uH			Q801	8-729-140-96		2SD774-34		
						Q802	8-729-140-96	TRANSISTOR	2SD774-34		-
		< FILTER	>								
								< RESISTOR >	•		
LPF101	1-236-087-11			•							
LPF201	1-236-087-11	FILTER, L	OW PASS			R101	1-249-435-11	CARBON	33K 5%	1/4W	
						R102	1-249-403-11	CARBON	68 5%	1/4W	
		< TRANSIS	TOR >			R103	1-247-882-11	CARBON	130K 5%	1/4W	
						R104	1-249-426-11	CARBON	5. 6K 5%	1/4W	
0101	8-729-900-89					R105	1-249-420-11	CARBON	1.8K 5%	1/4W	
Q102	8-729-900-74										
0103	8-729-821-31					R107	1-247-887-00		220K 5%	1/4W	
0201	8-729-900-89						1-247-840-00		2. 4K 5%	1/4W	
0202	8-729-900-74	TRANSISTO	R DTC143TS				1-249-423-11		3. 3K 5%	1/4W	
	0 700 001 01	TD111010T0					1-249-428-11		8. 2K 5%	1/4W	
0203	8-729-821-31					R112	1-247-864-11	CARBON	24K 5%	1/4W	
0301	8-729-900-65					D110					
0302	8-729-900-89						1-249-414-11		560 5%	1/4W	
0303	8-729-900-89						1-249-417-11		1K 5%	1/4W	
Q304	8-729-820-24	TRANSISIU	R 2SC3330-T		* 1		1-247-846-11		4. 3K 5%	1/4W	
0205	9_720 000 00	TDANCIETO	D DTC144FC				1-249-423-11		3. 3K 5%	1/4W	
0305	8-729-900-89 8-729-821-04					R117	1-249-417-11	CARBUN	1K 5%	1/4W	
Q306 Q307											
	8-729-900-65										
Q308 Q309	8-729-900-65 8-729-900-89										
4203	0-179-300-03	THANSISIU	DICI44ES		I						

				:										
Ref. No	. Part No.	Descri	ption			Remarks	Ref. No	o. Part No.	Descr	iption			. [Remarks
R118	1-249-429-11	CARBON	10K	5%	1/4W		R304	1-249-435-11	CARBON	33K	5%	1/4W		*,
R119	1-249-425-11	CARBON	4. 7K	5%	1/4W		R305	1-249-436-11	CARBON	39K	5%	1/4W		
R120	1-249-421-11	CARBON	2. 2K	5%	1/4W		R306	1-247-880-11	CARBON	110K	5%	1/4W		
R121	1-249-429-11	CARBON	10K	5%	1/4W		R307	1-247-885-00	CARBON	180K	5%	1/4W		
R122	1-249-425-11	CARBON	4. 7K	5%	1/4W		R308	1-249-436-11	CARBON	39K	5%	1/4W		
R124	1-249-429-11	CARBON	10K	5%	1/4W		R309	1-247-881-00	CARBON	120K	5%	1/4W		
R125	1-249-437-11	CARBON	47K	5%	1/4W		R310	1-247-874-11	CARBON	62K	5%	1/4W		
R126	1-249-431-11	CARBON	15K	5%	1/4W		R311	1-247-872-11	CARBON	51K	5%	1/4W		
R127	1-249-409-11	CARBON	220	5%	1/4W		R312	1-247-889-00	CARBON	270K	5%	1/4W		
R128	1-249-428-11	CARBON	8. 2K	5%	1/4W		R313	1-247-883-00	CARBON	150K	5%	1/4W	,	
D1 20	1 247 002 00	CARRON	1500	E9/	1 /AW		D214	1.047.070.11	CADDON	124	E9/	1 / AW		
R129	1-247-883-00		150K	5%	1/4W		R314	1-247-870-11	CARBON	43K	5%	1/4W		
R130	1-249-393-11	CARBON	10	5% 5%	1/4W		R315	1-247-893-11	CARBON	390K	5% 5%	1/4W		
R131	1-249-432-11		18K	5%	1/4W		R316	1-249-438-11		56K	5%	1/4W		
R132	1-249-439-11		10K		1/4₩		R317	1-247-872-11		51K	5%	1/4W		
R201	1-249-435-11	CARBON	33K	5%	1/4W		R318	1-247-876-11	CARBON	75K	5%	1/4W		
R202	1-249-403-11	CARBON	68	5%	1/4W		R319	1-249-441-11	CARBON	100K	5%	1/4W		
R203	1-247-882-11		130K	5%	1/4W		R320	1-249-438-11	CARBON	56K	5%	1/4W		
R204	1-249-426-11			5%	1/4W		R321	1-247-881-00	CARBON	120K		1/4W		
R205	1-249-420-11		1. 8K	5%	1/4W		R322	1-249-433-11	CARBON	22K	5%	1/4W		
R207	1-247-887-00	CARBON	220K	5%	1/4W		R323	1-249-409-11	CARBON	220	5%	1/4W		
R208	1-247-840-00	CARBON	2. 4K	5%	1/4W		R324	1-249-433-11	CARBON	22K	5%	1/4W		
R210	1-249-423-11	CARBON	3. 3K	5%	1/4W		R325	1-249-433-11	CARBON	22K	5%	1/4W		
R211	1-249-428-11	CARBON	8. 2K	5%	1/4W		R326	1-249-425-11	CARBON	4. 7K	5%	1/4W		
R212	1-247-864-11	CARBON	24K	5%	1/4W		R327	1-247-887-00	CARBON	220K	5%	1/4W		
R213	1-249-414-11	CARBON	560	5%	1/4W	·	R328	1-249-429-11	CARBON	10K	5%	1/4W		
2045	4 017 010 44	0.100011		ra/	4 / 419		2000	4 010 114 44	0.1770011	4006	FA/	4 / 470		
R215	1-247-846-11		4. 3K	5%	1/4W		R329	1-249-441-11	CARBON	100K		1/4W		
R216	1-249-423-11	CARBON	3. 3K		1/4W		R330	1-249-428-11	CARBON	8. 2K		1/4W		
R217	1-249-417-11	CARBON	1K	5%	1/4W		R331	1-249-423-11	CARBON	3. 3K		1/4W		
R218	1-249-429-11	CARBON	10K	5%	1/4W		R332	1-249-417-11		1K	5%	1/4₩		
R219	1-249-425-11	CARBON	4. 7K	5%	1/4W		R333	1-249-441-11	CARBON	100K	5%	1/4W		
R220	1-249-421-11	CARBON	2. 2K	5%	1/4W		R334	1-249-441-11	CARBON	100K	5%	1/4₩		
R221	1-249-429-11	CARBON	10K	5%	1/4W		R335	1-249-419-11	CARBON	1. 5K	5%	1/4¥		
R222	1-249-425-11			5%	1/4W		R336	1-247-850-11	CARBON	6. 2K	5%	1/4W		
R224	1-249-429-11		10K	5%	1/4W		R337	1-249-421-11		2. 2K		1/4W		
R225	1-249-437-11	CARBON	47K	5%	1/4W		R338	1-249-429-11	CARBON	10K	5%	1/4₩		
R226	1-249-431-11		15K	5%	1/4₩		R339	1-249-429-11	CARBON	10K	5%	1/4W		
R227	1-249-409-11	CARBON	220	5%	1/4W		R340	1-249-437-11	CARBON	47K	5%	1/4W		•
R228	1-249-428-11	CARBON	8. 2K	5%	1/4W		R341	1-249-437-11	CARBON	47K	5%	1/4W		
R229	1-247-883-00		150K	5%	1/4W		R342	1-212-851-00	FUSIBLE	5. 6	5%	1/4W	F	
R230	1-249-393-11	CARBON	10	5%	1/4W		R343	1-215-455-00	METAL	27K	1%	1/6W		
R231	1-247-432-11	CARBON	18K	5%	1/4₩		R344	1-247-864-11	CARRON	24K	5%	1 /AW		
R232	1-247-432-11		10K	5%	1/4# 1/4₩		R345	1-247-004-11		47K	5%	1/4W 1/4W		
R301	1-249-409-11		220	5%	1/4W	.	R601	1-249-437-11		270	5%	1/4W		
R302	1-249-409-11		220	5%	1/4W		R602	1-249-415-11		680	5%	1/4W		
R303	1-249-433-11		22K	5%	1/4W		R701	1-249-429-11		10K	5%	1/4W		
11000	1 243 400-11	OVIDOU	ZZN	J/8	1/ → ਜ		ATVI	1 443-443-11	VALIDAN	IVN	3/0	1/411		

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

TC-H5600

MAIN MD

Ref. N	lo. Part No.	Descriptio	n.			Remarks	Ref. No.	Part No.	Description		Ē	<u>Remarks</u>
R702	1-249-429-11	CARBON	10K	5%	1/4W		R748	1-249-429-11	CARBON 10K	5% 1/4W		
R703	1-249-425-11		4. 7K		1/4W		R749	1-249-429-11		5% 1/4W		
R704	1-249-425-11		4. 7K		1/4W		R771	1-249-405-11		5% 1/4W		
R705	1-249-425-11	CARBON	4. 7K		1/4W		R772	1-249-405-11		5% 1/4W		
R706	1-247-903-00		1M	5%	1/4W		R773	1-249-405-11		5% 1/4W		
N/00	1-247-303-00	CANDON	I MI	J/I	1740		11770	1 240 400 11	CARBON 100	. 17 411		
D707	1 240 422 11	CADDON	22K	5%	1/4₩		R780	1-249-433-11	CARBON 22K	5% 1/4W		
R707	1-249-433-11						R801	1-249-431-11		5% 1/4W		
R708	1-249-411-11		330	5%	1/4W		R802					
R709	1-247-830-11		910	5%	1/4W		nouz	1-249-431-11	CARBON 15K	5% 1/4W		
R710	1-249-418-11		1. 2K		1/4W				/ VADIABLE DECISION >			
R711	1-249-417-11	CARBON	1K	5%	1/4W				< VARIABLE RESISTOR >			
0710	41 010 050 00	ENCID: E	4.7	E#	1 /OW 1	_	DV101	1_220_507_11	RES, ADJ, CARBON 1K			
R712	<u>↑</u> 1-212-950-00		4. 7	5%	1/2W F		RV101					
R713	1-249-421-11		2. 2K		1/4W	i	RV102	1-238-600-11				•
R714	1-249-419-11		1. 5K		1/4₩		RV103	1-238-601-11	RES, ADJ, CARBON 22K			
R715	1-249-417-11		1K	5%	1:/4W	_	RV201	1-238-597-11	RES, ADJ, CARBON 1K			
R716	1-212-950-00	FUSIBLE	4. 7	5%	1/2\ I	F	RV202	1-238-600-11	RES, ADJ, CARBON 10K			
R717	1-249-436-11		39K	5%	1/4W	. 1	RV203	1-238-601-11	RES, ADJ, CARBON 22K			
R718	1-249-436-11	CARBON	39K	5%	1/4W		RV301	1-241-232-11	RES, VAR, CARBON 20K/	20K/20K (REC	LEVEL)	
R719	1-247-887-00	CARBON	220K		1/4W							
R720	1-247-887-00	CARBON	220K	5%	1/4 \				< RELAY >			
R721	1-249-425-11	CARBON	4. 7K	5%	1/4W							
							RY301	1-515-726-11	RELAY			
R722	1-249-425-11	CARBON	4. 7K	5%	1/4W							
R724	1-249-433-11	CARBON	22K	5%	1/4W			**	< SWITCH >			
R725	1-247-903-00	CARBON	1M	5%	1/4₩							
R726	1-249-429-11	CARBON	10K	5%	1/4₩		S601	1-554-303-21	SWITCH, TACTILE (AUTO	REC LEVEL)		
R727	1-249-425-11	CARBON	4. 7K	5%	1/4W		S605	1-554-303-21	SWITCH, TACTILE (🖴	OPEN/CLOSE)	
R728	1-249-425-11	CARBON	4. 7K	5%	1/4W				< TRANSFORMER >			
R729	1-249-425-11	CARBON	4. 7K	5%	1/4₩							
R730	1-249-433-11	CARBON	22K	5%	1/4W		T101	1-433-335-11	TRANSFORMER, BIAS OSC	ILLATION	*	
R731	1-249-433-11	CARBON	22K	5%	1/4W	•	T201	1-433-335-11	TRANSFORMER, BIAS OSC	ILLATION		
R732	1-249-424-11	CARBON	3. 9K	5%	1/4W		T301	1-433-336-11	TRANSFORMER, BIAS OSC	ILLATION		*
							T801	1-450-673-11	TRANSFORMER, DC-DC CO	NVERTER		
R733	1-249-429-11.	CARBON	10K	5%	1/4W							
R734	1-249-441-11	CARBON	100K	5%	1/4₩			•	< CRYSTAL >			
R735	1-249-439-11	CARBON	68K	5%	1/4W							
R736	1-249-417-11	CARBON	1 K	5%	1/4₩		X701	1-577-358-21	VIBRATOR, CERAMIC 4MH	z		
R737	1-249-417-11	CARBON	1 K	5%	1/4W		X702	1-577-358-21	VIBRATOR, CERAMIC 4MH	z		
R738	<u></u> 1-212 - 950-00	FUSIBLE	4.7	5%	1/2W	F						
R739	1-249-429-11	CARBON	10K	5%	1/4₩		******	******	*********	********	*****	*****
R740	1-249-429-11	CARBON	10K	5%	1/4W						a.	
R741	1-249-415-11	CARBON	680	5%	1/4W		*	1-632-740-11	MD BOARD			
R742	1-249-420-11		1. 8K	5%	1/4W				******			
												*
R743	1-249-410-11	CARBON	270	5%	1/4W			3-356-631-01	HOLDER (SENSOR)			
R744	1-249-421-11		2. 2K		1/4W							
R745	1-249-421-11		2. 2K		1/4W				< CONNECTOR >			
R746	1-249-421-11		2. 2K		1/4W							
R747	1-249-421-11		2. 2K		1/4W	1	CN1001	1-506-615-11	PIN, CONNECTOR 9P			
						1			PIN, CONNECTOR 10P			

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

MD PANEL

Ref. No. F	Part No	Description	Remarks	Ref. No.	Part No.	Descriptio	n.		Remarks
			Piornomo	D603		DIODE 1SS35			<u> </u>
1R1001 * 1-2	009-000-11	PIN, CONNECTOR 5P		0003	0-719-300-02	DIODE 15555	,		
		< IC >				< INDICATOR >			
		IC PHOTO REFLECTOR GP2S22B(SUPPLY F IC PHOTO REFLECTOR GP2S22B	REEL)	FL601	1-519-656-11	INDICATOR TUBE	E, FLUORESC	ENT	
		(TAKE UP RE	EL)			< IC >			
									•
		< RESISTOR >		10601	8-759-323-62	IC HD614023I	FA89		
R1001 1-2	249-408-11	CARBON 180 5% 1/4W				< RESISTOR >			
R1002 1-2	249-408-11	CARBON 180 5% 1/4W							
				R603	1-216-059-00		2. 7K 5%	1/10W	
		< SWITCH >		R604	1-216-055-00		1.8K 5%	1/10W	
				R605	1-216-063-00		3. 9K 5%	1/10W	
		ENCODER, ROTARY		R606	1-216-029-00		150 5%	1/10W	
		SWITCH, PUSH (1 KEY) (DOOR)		R607	1-216-033-00	METAL CHIP	220 5%	1/10W	
		SWITCH, PUSH (1 KEY) (CLOSE)							
		SWITCH, PUSH (1 KEY) (OPEN)		R608	1-216-037-00	-	330 5%	1/10₩	
S1005 1-5	572-125-11	SWITCH, LEAF (FWD TAB)		R609	1-216-041-00		470 5%	1/10W	
				R610	1-216-045-00		680 5%	1/10W	
		SWITCH, LEAF (HALF)		R611	1-216-065-00		4. 7K 5%	1/10W	
		SWITCH, LEAF (METAL)		R612	1-216-051-00	METAL CHIP	1. 2K 5%	1/10W	
		SWITCH, LEAF (70uS)		0010	1 010 050 00	METAL AND	0 711 511		
S1009 1-5	0/2-125-11	SWITCH, LEAF (REV TAB)		R613	1-216-059-00		2. 7K 5%	1/10W	
				R614	1-216-063-00		3. 9K 5%	1/10W	
		·		R615	1-216-081-00		22K 5%	1/10₩	
*********	*******	*******************************	**********	R616	1-216-121-00		1M 5%	1/10W	
	2000 450 4	DANEL BOARD COMPLETE		R617	1-216-049-00	METAL, CHIP	1K 5%	1/10W	
¥ A-2	2006-453-A	PANEL BOARD, COMPLETE		DC10	1 010 001 00	METAL CHILD	004 54	1 /1 OW	
		***********		R618	1-216-081-00		22K 5%	1/10W	
* 2 2	000 100 01	HOLDED EL TUDE		R620	1-216-025-00		100 5%	1/10W	•
		HOLDER, FL TUBE		R621 R622	1-216-025-00		100 5%	1/10W	
¥ 4-3	321-341-01	CUSHION (FL)		NOZZ	1-216-025-00	METAL CHIP	100 5%	1/10W	
		< CAPACITOR >				< SWITCH >			•
C601 1-1	64-232-11	CERAMIC CHIP 0.01uF 5	60V	S602	1-554-303-21	SWITCH, TACTIL	E (< -)		
			257	\$603		SWITCH, TACTIL			
			60V	S604		SWITCH, TACTIL)	
			50V	\$606		SWITCH, TACTIL			
			50V	\$607		SWITCH, TACTIL			
C606 1-1	63-037-11	CERAMIC CHIP 0. 022uF 10% 2	57	S608	1-554-303-21	SWITCH, TACTIL	.E (◁)		
				S609	1-554-303-21	SWITCH, TACTIL	E (II PAUS	SE)	
		< CONNECTOR >		\$610		SWITCH, TACTIL			
				S611		SWITCH, TACTIL			
CN601 * 1-5	68-858-11	SOCKET, CONNECTOR 15P		S612		SWITCH, SLIDE			
CNP601 * 1-5	64-495-11	PIN, CONNECTOR 2P							
		< DIODE >		S613	1-570-842-11	SWITCH, SLIDE	(DIRECTION	MODE)	
						< CRYSTAL >			
D601 8-7	19-301-38	DIODE SEL2210-C							
	19-988-62		'	X601	1-577-359-21	VIBRATOR, CERA	MIC 4. 19MHz	z	

PIN JACK

Ref. No	Part No.	Description	<u>n</u>		<u>R</u>	lemarks	Ref. No.	Part No.	<u>D</u>	escriptio	<u>n</u>			Remarks	
******	*****	*****	*******	*****	******	******	C487	1-164-232-11	CERAM	IC CHIP	0. 01uF		50V		
							C488	1-164-232-11	CERAM	C CHIP	0. 01uF		50V		
1	A-2006-548-A	PIN JACK BOAR	O, COMPLETE				C489	1-164-232-11	CERAM	C CHIP	0. 01uF		50V		
		*********	*******				C490	1-164-232-11	CERAM	IC CHIP	0. 01uF		50V		
							C491	1-164-232-11	CERAM	IC CHIP	0. 01uF		50V		
		< CAPACITOR >													
							C492	1-164-232-11	CERAM	IC CHIP	0. 01uF		50V		
C401	1-163-003-11	CERAMIC CHIP	330PF	10%	50V		C493	1-164-232-11	CERAM	C CHIP	0. 01uF		50V		
C402	1-163-003-11	CERAMIC CHIP	330PF	10%	50V		C494	1-164-232-11	CERAMI	C CHIP	0. 01uF		50V		
C403	1-163-003-11	CERAMIC CHIP	330PF	10%	50V		C495	1-164-232-11	CERAMI	C CHIP	0. 01uF		50V		
C404	1-163-003-11	CERAMIC CHIP	330PF	10%	50V		C496	1-164-232-11	CERAMI	C CHIP	0. 01 uF		50V		
C405	1-163-003-11	CERAMIC CHIP	330PF	10%	50V										
							C497	1-126-301-11	ELECT		1uF	20%	50V		
C407	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		C4001	1-163-119-00	CERAMI	C CHIP	120PF	5%	50V		
C409	1-124-465-00	ELECT	0. 47uF	20%	50V		C4002	1-163-119-00	CERAM	C CHIP	120PF	5%	50V		
C410	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	1	C4003	1-124-589-11	ELECT		47uF	20%	16V		
C411	1-126-163-11	ELECT	4. 7uF	20%	50V		C4010	1-163-037-11	CERAMI	C CHIP	0. 022uF	10%	25V		
C412	1-163-018-00	CERAMIC CHIP	0. 0056uF	5%	50V										
							C4013	1-163-037-11	CERAMI	C CHIP	0. 022uF	10%	25V		
C413	1-163-011-11	CERAMIC CHIP	0. 0015uF	10%	50V		C4020	1-163-037-11	CERAM	C CHIP	0. 022uF	10%	25V		
C414	1-124-257-00	ELECT	2. 2uF	20%	50V		C4021	1-163-037-11	CERAMI	C CHIP	0. 022uF	10%	25V		
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		C4022	1-124-589-11	ELECT		47uF	20%	16V		
C417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V										
C418	1-126-157-11	ELECT	10uF	20%	16V	ļ			< CONN	IECTOR >					
											5.				
C419	1-126-157-11	ELECT	10uF	20%	16V		CN401 *	1-568-834-11	SOCKET	, CONNEC	TOR 15P				
C451	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	1	CNJ401 *	1-580-740-11	SOCKET	, CONNEC	TOR 17P				
C452	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	10	CNJ402 *	1-573-187-11	PIN, C	ONNECTOR	(PC BOARD)	7P			
C453	1-163-003-11	CERAMIC CHIP	330PF	10%	50V		CNJ403 *	1-573-388-11	PIN, C	ONNECTOR	(PC BOARD)	8P			
C454	1-163-003-11	CERAMIC CHIP	330PF	10%	50V										
									< D100	E >					
C455	1-163-003-11	CERAMIC CHIP	330PF	10%	50V										
C457	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		D401	8-719-990-36	DIODE	DCA010					
C459	1-124-465-00	ELECT	0. 47uF	20%	50V		D403	8-719-210-33	DIODE	EC10DS	2				
C460	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		D404	8-719-210-33	DIODE	EC10DS	2				
C461	1-126-163-11	ELECT	4. 7uF	20%	50V		D405	8-719-990-36	DIODE	DCA010					
							D4001	8-719-988-62	DIODE	1SS355					
C462	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V										
C463	1-163-011-11	CERAMIC CHIP	0. 0015uF	10%	50V		D4002	8-719-988-62	DIODE	188355					
C464	1-124-257-00	ELECT	2. 2uF	20%	50V										
C466	1-163-117-00	CERAMIC CHIP	100PF	5%	50V				< IC >						
C467	1-163-117-00	CERAMIC CHIP	100PF	5%	50V										
							IC401	8-759-636-55	IC M	5218AFP					
C468	1-126-012-11	ELECT	470uF	20%	167			8-759-636-55		5218AFP					
C469	1-126-012-11	ELECT	470uF	20%	16V		10403	8-759-009-05	IC M	C14051BF					
C470	1-126-012-11	ELECT	470uF	20%	16V	İ	10404	8-759-009-05		C14051BF					
C481	1-164-232-11	CERAMIC CHIP	0. 01 uF		50V	.		8-759-516-47		D4066BCM					
C482	1-164-232-11	CERAMIC CHIP	0. 01uF		50V										
							10406	8-759-636-35	IC M	50760-31	5FP				
C483	1-126-177-11	ELECT	100uF	20%	10V			8-759-991-77		A7625					
C484	1-164-232-11	CERAMIC CHIP	0. 01 uF		50V										
C485	1-164-232-11	CERAMIC CHIP	0. 01uF		50V										
C486	1-126-157-11	ELECT	10uF	20%	16V										
						1									

PIN JACK

Ref. No	. Part No.	Descrip	<u>tion</u>		Remarks	Ref. No.	Part No.	Descripti	<u>on</u>			Remarks
		(JACK)				R415	1-216-049-00	METAL CHIP	1K	5%	1/10₩	
						R417	1-216-089-00	METAL CHIP	47K	5%	1/10W	
J401	1-565-304-11	JACK, PIN 4	P (AUDIO)			R418	1-216-049-00	METAL CHIP	1K	5%	1/10W	
J402 3	* 1-569-812-11	JACK, PIN 6	P (AUDIO)			R419	1-216-115-00	METAL CHIP	560K	5%	1/10W	
J403	1-565-933-11	JACK, PIN 3	P (VIDEO)			R420	1-216-089-00	METAL CHIP	47K	5%	1/10W	
J404	1-573-144-11	JACK, PIN 2	P (VIDEO)									
						R421	1-216-001-00	METAL CHIP	10	5%	1/10W	
		〈 JUMPER 〉				R422	1-216-075-00	METAL CHIP	12K	5%	1/10W	
						R423	1-216-041-00	METAL CHIP	470	5%	1/10W	
JW2	1-216-295-00	METAL CHIP		% 1/10¥		R425	1-216-025-00	METAL CHIP	100	5%	1/10W	
JW3	1-216-295-00	METAL CHIP		% 1/10¥		R426	1-216-089-00	METAL CHIP	47K	5%	1/10W	
JW8	1-216-295-00			% 1/10¥								
JW10	1-216-295-00			% 1/10W		R427	1-216-089-00	METAL CHIP	47K	5%	1/10W	
JW12	1-216-295-00	METAL CHIP	0 5	% 1/10W		R428	1-216-089-00	METAL CHIP	47K	5%	1/10W	
						R429	1-216-089-00	METAL CHIP	47K	5%	1/10W	
JW413	1-216-295-00			% 1/10¥		R430	1-216-089-00		47K	5%	1/10W	
JW414	1-216-295-00			% 1/10¥		R431	1-216-022-00	METAL CHIP	75	5%	1/10W	
JW439	1-216-295-00			% 1/10V		D.400	1 010 000 00	METAL ALLID	75	F0/	4 /4 010	
JW441	1-216-295-00			% 1/10W		R432	1-216-022-00		75	5%	1/10W	
JW463	1-216-295-00	METAL CHIP	0 5	% 1/10W	**	R434	1-216-073-00	METAL CHIP	10K	5%	1/10W	•
194.04	1 010 005 00	HETAL OULD		e/ 1/109		R435	1-216-073-00		10K	5%	1/10W	
JW464	1-216-295-00	METAL CHIP	0 5	% 1/10¥	-	R436	1-216-089-00		47K	5%	1/10W	*
		/ COII \				R437	1-216-121-00	METAL CHIP	1 M	5%	1/10W	
		(COIL)				D440	1-216-089-00	METAL CHIP	47V	E9/	1 /10W	
1.401	1-408-789-21	INDUCTOR, C	UID 400U			R440 R442	1-216-089-00	METAL CHIP	47K 47K	5% 5%	1/10W 1/10W	
L401 L4001	1-408-777-00	INDUCTOR, C				R450	1-216-065-00	METAL CHIP	4.7K	5%	1/10₩	
L4001	1-400-777-00	INDUCTOR, C	nir ivur			R451	1-216-049-00	METAL CHIP	1K	5%	1/10W	
		(TRANSISTO	R \			R452	1-216-049-00		1K	5%	1/10W	
		(1150101010	,			11402	1 210 040 00	merke out	110	070	1, 10	
0401	8-729-805-65	TRANSISTOR	2SA1344			R453	1-216-049-00	METAL CH!P	1K	5%	1/10W	
0402	8-729-805-65	TRANSISTOR	2SA1344			R454	1-216-041-00	METAL CHIP	470	5%	1/10W	
0403	8-729-602-36	TRANSISTOR	2SA1602-F			R455	1-216-041-00	METAL CHIP	470	5%	1/10W	
Q404	8-729-602-36	TRANSISTOR	2SA1602-F		¥)	R457	1-216-115-00	METAL CHIP	560K	5%	1/10W	
Q405	8-729-602-36	TRANSISTOR	2SA1602-F			R458	1-216-115-00	METAL CHIP	560K	5%	1/10W	
				,	13							
Q406	8-729-602-36	TRANSISTOR	2SA1602-F			R459	1-216-115-00	METAL CHIP	560K	5%	1/10W	
Q407	8-729-602-21	TRANSISTOR	2SC4154-F			R460	1-216-115-00	METAL CHIP	560K		1/10W	
					**	R461	1-216-115-00	METAL CHIP	560K		1/10W	
		(RESISTOR	>			R465	1-216-049-00		1K	5%	1/10W	
D.101		HETAL ALLIE		* * /* * !	n .	R467	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R401	1-216-049-00			% 1/10W		D.400		METAL ALLE	417	F#/	4 /4 011	
R402	1-216-049-00			% 1/10W		R468	1-216-049-00	METAL CHIP	1K	5%	1/10₩	
R403	1-216-049-00			% 1/10\		R469	1-216-115-00	METAL CHIP			1/10W	
R404	1-216-041-00			% 1/10% % 1/10%		R470	1-216-089-00	METAL CHIP	47K	5%	1/10W	•
R405	1-216-041-00	METAL CHIP	470 5	% 1/10W	\	R471	1-216-001-00		10	5%	1/10W	
D#07	1_010 115 00	METAL PILLE	EGUN -	V 1/10		R472	1-216-075-00	METAL CHIP	12K	5%	1/10W	• .
R407	1-216-115-00		560K 5			D472	1_216_041_00	HETAL OULD	470	E#/	1 /1 AW	
R408	1-216-115-00		560K 5			R473	1-216-041-00	METAL CHIP	470	5% 5%	1/10W	
R409 R410	1-216-115-00 1-216-115-00		560K 5 560K 5			R475 R476	1-216-025-00 1-216-089-00	METAL CHIP	100 47K	5% 5%	1/10W 1/10W	
R410 R411	1-216-115-00		560K 5			R477	1-216-089-00	METAL CHIP	47K 47K	5% 5%	1/10W	
0411	1 210-113-00	MILIAL VIII	JUUN 3	70 1/1Uff		R478	1-216-089-00		47K	5%	1/10#	
					i	11-110	003 00	METAL VIIII	-11V	J/0	1/1011	

PIN JACK POWER

Ref. N	o. Part No.	Description	<u>on</u>		<u>F</u>	<u>Remarks</u>	Ref. N	lo. Part No.	Descript	on ·			Remarks
R481	1-216-022-00	METAL CHIP	75 5%	1/10W			C516	1-124-903-11	ELECT	1uF	20%	50V	
R482	1-216-022-00	METAL CHIP	75 5%	1/10W			C518	1-124-473-11	ELECT	1000uF	20%	107	
R483	1-216-022-00	METAL CHIP	75 5%	1/10W			C519	1-124-473-11	ELECT	1000uF	20%	107	
R484	1-216-049-00	METAL CHIP	1K 5%	1/10W			C520	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	
R485	1-216-049-00	METAL CHIP	1K 5%	1/10W			C521	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	
R486	1-216-049-00		1K 5%	1/10W			C526	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	. 25V	
R487	1-216-029-00		150 5%	1/10W			C527	1-163-037-11		0. 022uF	10%	25V	
R488	1-216-029-00		150 5%	1/10W			C528		CERAMIC CHIP	0. 01uF	10%	507	
R489	1-216-031-00		180 5%	1/10W			C5001		CERAMIC CHIP	1000P	10%	50V	
R490	1-216-031-00	METAL CHIP	180 5%	1/10W			C5002	1-163-009-11	CERAMIC CHIP	1000P	10%	50V	
D401	1 216 021 00	HETAL CUID	100 EV	1 /1 OW			05004	1 102 027 11	OFDAMIA OUID	Λ ΛΩΩΓ	100/	251	
R491	1-216-031-00		180 5%	1/10W			C5004		CERAMIC CHIP	0. 022uF	10%	25V	
R492	1-216-029-00		150 5%	1/10W			C5005		CERAMIC CHIP	0. 01uF	10%	50V	
R493	1-216-073-00		10K 5%	1/10W			C5007	1-164-346-11	CERAMIC CHIP	1uF		16V	
R494	1-216-073-00		10K 5%	1/10W					/ CONNECTOR				
R495	1-216-081-00	METAL CHIP	22K 5%	1/10W					(CONNECTOR)				
R496	1-216-081-00	METAL CHIP	22K 5%	1/10W			CN402	* 1-573-187-11	PIN CONNECT	OR (PC BOARD)	7P		
R497	1-216-073-00		10K 5%	1/10W				* 1-573-388-11					
R499	1-216-073-00		10K 5%	1/10W			511100	1 0.0 000 11	,		O.		
R500	1-216-065-00		4. 7K 5%	1/10W					(DIODE)				
	. 2.0 000 00			.,					(DIODE)				
		(CRYSTAL)					D501	8-719-210-33	DIODE EC10	OS2			
							D502	8-719-210-33	DIODE EC10	OS2			
X401	1-577-077-11	OSCILLATOR, C	ERAMIC 400KH	z			D503	8-719-210-33	DIODE EC10	OS2			
		٠.					D504	8-719-210-33	DIODE EC10	OS2			
							D505	8-719-988-62	DIODE 1SS3	55			
*****	********	******	********	*****	******	******							
					1		D506	8-719-106-36	DIODE RD8.	2M-B3			
	* 1-639-415-11	POWER BOARD	•			i	D508	8-719-210-33	DIODE EC10	DS2			
		********					D509	8-719-210-33	DIODE EC10	S2			
							D510	8-719-210-33	DIODE EC10	S2			
	7-685-646-79	SCREW +BVTP 3	X8 TYPE N-S				D511	8-719-210-33	DIODE EC10	OS2			
		/ 04D40170D \				8 1							
		(CAPACITOR)							(FUSE)				
C501	1-124-556-11	FLECT	2200uF	20%	16V	,	F501	↑ 1-532-843-21	FIISE 2 FA	4			
C502	1-124-556-11		2200uF	20%	167		F502	<u>M</u> 1-532-843-21					
C503	1-124-360-00		1000uF	20%	167		1 302	ZZ1-332-043-Z1	100E 2. 3A				
C504	1-124-556-11		2200uF	20%					/ 10 \				
C505	1-124-556-11		10uF	20%	16V				(IC)				
6303	1-120-039-11	LLCGI	Ivur	20%	50V		IC501	8-759-823-46	IC 145603				
C506	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		10001	0 103 020 40	TO EXOCUT				
C507	1-124-903-11		1uF	20%	507				(TRANSISTOR	>			
C508	1-124-472-11		470uF	20%	107					•			
C509	1-124-472-11		470uF	20%	107		0501	8-729-209-15	TRANSISTOR	2SD2012			
C510	1-124-477-11		47uF	20%	25V		Q502	8-729-111-67		2SB1094-L			•
						Ì	Q503	8-729-805-65		2SA1344			
C511	1-124-903-11	ELECT	1uF	20%	507		Q504	8-729-602-21		2SC4154-F			
C512	1-124-477-11		47uF	20%	25V		Q505	8-729-602-21		2SC4154-F			
C513	1-124-903-11		1uF	20%	50V								
C514	1-124-472-11		470uF	20%	- 107								
C515	1-124-477-11		47uF	20%	257								
						- 1							

Note: The components identified by mark A or dotted line with mark A are critical for safety. Replace only with part number specified.

POWER REEL MOTOR TRANSLATION

Ref. No.	Part No.	Descript	tion		Remarks					
Q506	8-729-602-36	TRANSISTOR	2SA1602-EF							
Q510	8-729-805-49	TRANSISTOR	2SC3398							
Q511	8-729-602-36	TRANSISTOR	2SA1602-EF							
				. •						
		< RESISTOR >	>							
DEO1	1-216-033-00	METAL CHIP	220 5%	1/10W						
R501 R502	1-216-057-00			1/10W						
R503	1-216-057-00		2. 2K 5%	1/10W						
R504	1-216-089-00		47K 5%	1/10W						
R505	1-216-089-00	METAL CHIP	47K 5%	1/10W						
R520	1-216-058-00	METAL CHIP	2. 4K 5%	1/10W						
R521	1-216-056-00	METAL CHIP	2K 5%	1/10W						
R5001	1-216-025-00	METAL CHIP	100 5%	1/10W	ļ					
R5002	1-216-025-00	METAL CHIP	100 5%	1/10W						
******	***************************************									
*	1-632-741-11	REEL MOTOR E	BOARD							

		< CAPACITOR	>							
					}					
C1051	1-124-907-11	ELECT	10uF	20% 50V						
C1052	1-124-907-11		10uF	20% 50V						
C1053	1-164-159-11	CERAMIC	0. 1uF	50V						
		< CONNECTOR	,							
		COMMECTOR	7 .							
CN1051 *	1-564-499-11	PIN, CONNECT	TOR 6P							
	1-564-718-11			PE) 2P						
CN1053 *	1-564-718-11	PIN, CONNECT	TOR (SMALL TYP	PE) 2P						
		< RESISTOR >	>							
		2000								
R1051	1-249-414-11	CARBON	560 5%	1/4W						
******	*******	******	*******	*********	******					
******	***********	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*********					
*	1-634-323-11	TRANSLATION	BOARD							
		********	*****							
		< CONNECTOR	>							
	1-564-709-11			PE) 7P						
CN1092 *	1-564-509-11	PLUG, CONNEC	CTOR 6P							

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Ref. No. Part No.		Part No.	<u>Description</u>	<u>Remarks</u>
			MISCELLANEOUS	

	4	1-575-906-11	WIRE, FLAT TYPE (15 CORE)	
	11 *	1-573-188-11	CONNECTOR, BRIDGE 7P	
	12 *	1-573-389-11	COONECTOR, BRIDGE 8P	
	13	1-575-664-11	WIRE, FLAT TYPE (15 CORE)	
	D1051	8-719-980-85	DIODE SLF-325C	
	HRPE1001	A-2003-772-A	BASE ASSY, HEAD	
	IC1001	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
	IC1002	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
	M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
	M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
	M1053	X-3356-635-1	MOTOR (CAPSTAN R2) ASSY	
	\$1001	1-466-525-11	ENCODER, ROTARY	
			•	

HARDWARE LIST

# 1	7-621-773-93	SCREW	(PANEL 2.6 TP2)
# 2	7-685-646-79	SCREW	+BVTP 3X8 TYPE2 N-S
# 3	7-682-547-04	SCREW	+BVTT 3X6 (S)
# 4	7-621-283-00	SCREW	+BVTT 2X5 (S)
# 5	7-685-133-19	SCREW	+BTP 2.6X6 TYPE2 N-S
# 6	7-621-255-20	SCREW	+BVTT 2X4 (S)
# 7	7-621-255-35	SCREW	+BVTT 2X5 (\$)
# 8	7-621-770-67	SCREW	+BVTT 2.6X6 (S)
# 9	7-685-131-19	SCREW	+BTP 2.6X4 TYPE2 N-S
#10	7-621-849-00	SCREW	(BV/RING)
# 11	7-621-255-15	SCREW	+PTT 2X3 (S)